

Graduate Students and Postdoctorates in Science and Engineering

Fall 2001

Detailed Statistical Tables

Joan S. Burrelli, Project Officer

Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences

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Directorate for Social, Behavioral, and Economic Sciences

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Arlington, VA 22230
Telephone: (703) 292-8774
Fax: (703) 292-9092
e-mail: srsweb@nsf.gov

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CONTENTS

<i>Section</i>	<i>Page</i>
GENERAL NOTES	1
TECHNICAL NOTES	3
TECHNICAL TABLES	7
DETAILED STATISTICAL TABLES	21
SURVEY MATERIALS	161

GENERAL NOTES

Data presented in these tables are derived from the fall 2001 National Science Foundation-National Institutes of Health (NSF-NIH) Survey of Graduate Students and Postdoctorates in Science and Engineering. Unless otherwise specified, the published data represent estimates of total enrollment in science and engineering programs in approximately 11,967 graduate departments at 606 institutions in the United States and outlying areas.

NSF has collected data on graduate enrollment and postdoctoral employment since 1966. These data were collected on a limited or sample basis from 1984 through 1987 (see Technical Notes for further information). Beginning in 1988, all eligible institutions were included in the survey.

In 1992, the citizenship categories requested were modified to conform to those used in other surveys conducted by NSF and the National Center for Education Statistics, among others. Previously, permanent residents (those who held green cards but had not yet been granted U.S. citizenship) were included in the "Foreign" category;

after 1992, these individuals were included in the "U.S. citizens" total and reported according to racial/ethnic background.

For these reasons, and because institutions may revise their data for earlier years, only the latest trend data should be used in historical analyses.

Tables showing data on source or mechanism of support refer only to primary (that is, largest) source or mechanism of support.

For more information on the survey, please contact:

Joan Burrelli, Project Officer
Human Resources Statistics Program
Division of Science Resources Statistics
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230
Telephone: (703) 292-7793
Fax: (703) 292-9092
Email: jburrell@nsf.gov

TECHNICAL NOTES

SURVEY UNIVERSE

The data collected in the fall 2001 Survey of Graduate Students and Postdoctorates in Science and Engineering¹ represent national estimates of graduate enrollment and postdoctoral employment as of fall 2001 in all academic institutions in the United States that granted doctorate or master's degrees in any science, engineering, or health-related field. Included are data for all branch campuses, affiliated research centers, and separately organized components such as medical or dental schools, schools of nursing, public health, etc. The survey universe consisted of 721 reporting units at 606 graduate institutions, including 242 master's-granting institutions and 483 reporting units associated with 364 doctorate-granting institutions.

The National Science Foundation (NSF) has collected data on graduate science and engineering (S&E) enrollment and postdoctoral appointees since 1966. From fall 1966 through fall 1971, data from a limited number of doctorate-granting institutions were collected through the NSF Graduate Traineeship Program, which requested data only on those S&E fields supported by NSF. Beginning with the fall 1972 survey, this data collection effort was assigned to NSF's Universities and Nonprofit Institutions Studies Group and was gradually expanded from 1972 to 1975 to include additional S&E and health fields as well as all institutions known to have programs leading to a master's or doctoral degree. Due to this expansion, data for 1974 and earlier years are not strictly comparable with 1975 and later data. Technical table 1 shows the number of institutions, reporting units, and departments at each level included in the data, as well as the total enrollment reported for each year between 1966 and 2001. No attempt has been made to inflate the data for 1966–74 to reflect universe totals.

Beginning with fall 1984 academic year, master's-granting institutions were surveyed on a sample basis. From 1984 through 1987, the survey design was a stratified random sample, with all doctorate-granting institutions, all master's-granting historically black colleges and universities, and all land-grant institutions included in the certainty stratum. The remaining master's-granting institutions were divided into two sample strata

on the basis of enrollment size. Data for sampled institutions for the years 1984–87 were reestimated in 1988 on the basis of 1983 and 1988 data. During the 1989 survey cycle, S&E field definitions were reviewed and some departments were deleted. Data for 1975–88 were adjusted to conform to the revised definitions.

The fall 1988 survey included the entire survey population for the first time since fall 1983. Since 1988, any institutions starting up S&E master's or doctoral programs have been added to the survey universe, and any that have closed all their S&E graduate programs have been deleted. (See "Survey Methodology," below.)

Technical tables 2 and 3 present data on departmental coverage by S&E field for doctorate- and master's-granting institutions for the last 8 years surveyed.

SURVEY INSTRUMENTS

The survey questionnaire on which data are reported in this publication is essentially the same as that used for the 2000 collection. In addition to the questionnaire proper, each survey package also included the following:

- An enclosure detailing mailing package contents
- A flyer explaining NSF's academic S&E surveys
- A cover letter to survey coordinators at graduate schools or at medical schools
- A computer-generated List of Departments or Programs (NSF Form 811) specific to each institution surveyed and based on the departments known to exist in the previous survey cycle
- A crosswalk showing National Center for Education Statistics instructional program codes corresponding to each S&E field as defined by NSF
- A postcard for respondent use acknowledging receipt of the survey and indicating any changes in coordinator name, address, telephone number, or email address
- A flyer informing coordinators of their IDs and passwords to use in responding to the survey via the NSF-NIH Graduate Student Survey Web-Based Data Reporting System

¹See <http://www.nsf.gov/sbe/srs/sgss/start.htm> for a more detailed discussion of the methodology used in this survey.

- A sheet (“Accessing NSF Data on the Internet”) encouraging coordinators to view last year’s data on the web via the NSF Division of Science Resources Statistics home page

SURVEY METHODOLOGY

The survey packages were mailed out by November 2, 2001. For the fourth year, schools had the option of reporting data using the NSF-NIH Graduate Student Survey Web-Based Data Reporting System; 467 schools elected to do so. The final survey universe consisted of 721 schools (reporting units) at 606 institutions.

In addition to the verification information cited above, the acknowledgment postcard also requested that institutional coordinators indicate how the data were collected, whether the data were maintained centrally or collected from individual departments, and whether they were derived from a computerized database or hand tabulated. Of the 721 reporting units surveyed, 98.5 percent have provided this information during the past 10 years. The majority of schools report a combination of sources for their data. Over the years, the use of computerized systems has shown a gradual but small increase, while the use of hand tabulation has slowly decreased.

Institutional coordinators were asked to review the departmental listing provided in the survey packet and to indicate any changes in their departmental structure such as departments newly formed, phased out, split, or merged; they were also asked to check off any departments that had neither graduate students nor postdoctorates and for which survey questionnaires would therefore not be submitted. The revised Form 811s were returned to NSF’s data processing contractor for use as a checklist in tracking departmental responses.

A survey questionnaire was completed for each department either centrally or at the department level and was returned to the data processing contractor for data entry, editing, and tabulation. Arithmetic errors, inconsistencies between items, and sharp year-to-year fluctuations were referred to the institutional coordinators for correction or clarification.

RESPONSE RATE

Of the 721 reporting units included in the fall 2001 survey, 710—or 98.5 percent—were able to provide at least partial data, distributed as follows.

At the departmental level, 11,852 departments responded, or 99.0 percent of the 11,967 departments surveyed. Of these, 10,121 departments, or 84.6 percent of the total, provided complete responses. A total of 115 departments, or 1.0 percent of the departmental total, required complete imputation; 1,731, or 14.5 percent, had one or more data cells imputed. Technical table 4 presents the department response rates for earlier years for comparison.

Missing data for partially nonrespondent departments were imputed using the departments’ previous year’s data, where available, or data from peer institutions in cases where data had not been reported the previous year. Data for nonrespondent departments (those that did not provide any data) were imputed using data from the previous year, where available. The number of departments in doctorate- and master’s-granting institutions that required total or partial imputation, and the numbers and proportions of full- and part-time graduate students and postdoctorates imputed, are shown in technical tables 5 and 6. Imputation rates by survey data item are provided in technical table 7.

CHANGES IN DATA ITEMS

Although NSF has attempted to maintain consistent trend data, some modifications in the survey questionnaire have been made to respond to changing issues over the past 25 years. As a result, some data items are not available for all institutions in all years.

Major changes in the data collected include the following:

- From 1975 through 1977, data for master’s-granting institutions were collected on a short form (i.e., an abbreviated form of the survey) which did not collect data on sex or citizenship of graduate students nor any data on postdoctoral appointees. In 1978, a similar questionnaire was sent to doctorate-granting institutions; master’s-granting institutions were not surveyed that year. This 1978 questionnaire did not collect data on mechanisms of support for full-time students. All mechanisms of support data for that year were combined on one line and appear as “other types of support” in any data tables. The 1978 figures shown in the tables for master’s-granting institutions represent estimates based on 1977 and 1979 data. Beginning in 1979, the full-scale survey form was sent to both doctorate- and master’s-granting institutions.

- Distribution by sex was originally requested only for full-time graduate students at doctorate-granting institutions. Beginning in 1976, master's-granting institutions were also asked to provide data on all graduate students by sex; in 1977, similar data were requested for all graduate students in all institutions. The short form used in 1978 did not request any information on sex; 1978 figures in the tables represent estimates based on 1977 and 1979 data.
- Citizenship data were collected only for graduate students enrolled full time in doctorate-granting institutions through 1977. No citizenship data were requested on the short form used for master's-granting institutions from 1975 through 1977 and for doctorate-granting institutions in 1978. Data on citizenship of all full-time graduate students are available beginning in 1979 and on those enrolled part time since 1983.
- Racial/ethnic data were first requested in 1979 and became a standard item on the questionnaire in 1980.
- The support mechanisms of "fellowships and traineeships" were combined on one line until 1979, when separate data on the two mechanisms were first collected.
- "Other nonfaculty research staff with doctorates" were combined with postdoctoral appointees until 1979.
- Separate data on students receiving their primary support from the U.S. Department of Agriculture were first requested in 1985.
- Racial/ethnic data by sex were first requested in 1993 and became a standard item on the questionnaire in 1994.
- Separate data on students receiving their primary support from the National Aeronautics and Space Administration were first requested in 1996.
- A new reporting option was incorporated into the 1998 graduate student survey which gave coordinators and departmental respondents the option of submitting their data through the World Wide Web. Using this new web-based option, schools could avoid manually filling out the paper survey and could obtain immediate feedback on their responses. This feedback helped coordinators and departmental respondents ensure that their data were accurate and complete. Using this option also enabled respondents to upload their own data files, speeding up the reporting process.
- In 1999, separate data on students receiving their primary support from the Department of Energy were requested.
- Respondents were presented with new race/ethnicity categories in 1999. The "Asian/Pacific Islander" category used in previous years' surveys was separated into an "Asian American" category and a "Native Hawaiian/Pacific Islander" category. Two new categories, "More than One Race Hispanic" and "More than One Race Non-Hispanic," were also added to the survey. The "Other" category, included in previous years' surveys, was removed from the 1999 survey. These changes are not reflected in the 2001 published tables. In each of the three years that these data were collected, only about 8 percent of the departments reported data in any of the new categories. This year, as in the previous two years, the data reported in the new categories were combined into the previous survey categories for table production. The data were collapsed into the following categories: the data in the "Asian" category were combined with those in the "Native Hawaiian/Pacific Islander" category; data in the "One Race Only Hispanic" category and the "More than One Race Hispanic" category were combined to produce the "Hispanic" category on the tables; and data in the "More than One Race Non-Hispanic" category were combined with the "Unknown" category to form the "Other or Unknown" category on the tables.
- Also, 1999 was the first year in which first-time enrollment by race/ethnicity was requested. These data are also not reflected in the 2001 published tables.

DATA REVISIONS

During the fall 1988 survey cycle, the criteria for including departments in the survey universe were tightened, and all departments surveyed were reviewed. Those departments not primarily oriented toward granting research degrees were no longer considered to meet the S&E definition. As a result of this review, it was determined that a number of departments—primarily those in the field of "Social sciences, not elsewhere classified"—were engaged in training primarily teachers, practitioners, administrators, or managers rather than

researchers; these departments were deleted from the database. This process was continued during the 1989–97 survey cycles and expanded to ensure trend consistency for the entire 1975–97 period. As a result, total enrollments and social science enrollments for all years were reduced. The net effect of adjustments over the years is shown in technical table 8.

In fall 1992, the survey methodology changed so that the institution's highest S&E degree in the current year would apply to all previous years in which that institution was surveyed. Since a number of master's-granting institutions have become doctorate-granting institutions

over the years, the result has been a smaller decrease in enrollment at doctorate-granting institutions than at master's-granting institutions.

The definition of medical schools was revised during the fall 1992 survey cycle to include only those institutional components that are members of the Association of American Medical Colleges. Tables generated after the fall 1992 survey differ from—and therefore should not be compared with—their earlier year counterparts in that they exclude schools of nursing, public health, dentistry, veterinary medicine, and other health-related disciplines.

LIST OF TECHNICAL TABLES

<i>Table</i>	<i>Page</i>
1. The NSF data collection series: 1966–2001	9
2. Number of science, engineering, and health departments in doctorate-granting institutions, by detailed field: 1993–2001	10
3. Number of science, engineering, and health departments in master's-granting institutions, by detailed field: 1994–2001	12
4. Original departmental response rates: 1975–2001	14
5. Imputation for nonresponse in doctorate-granting institutions, by field and enrollment status: 1999–2001	15
6. Imputation for nonresponse in master's-granting institutions, by field and enrollment status: 1999–2001	16
7. Imputation rates for all departments at all graduate institutions: fall 2001	17
8. Comparison of graduate enrollment data as originally published and as modified through the fall 2001 graduate student survey cycle: 1975–2001	18

Technical Table 1. The NSF data collection series: 1966-2001

Year	Number of institutions surveyed	Number of reporting units surveyed	Number of departments surveyed			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full-time	Part-time
A. Graduate Traineeship Program								
1966	204	204	2,866	441	2,425	169,303	124,255	45,048
1967	209	209	3,014	434	2,580	179,622	133,972	45,650
1968	219	219	3,190	454	2,736	184,759	140,714	44,045
1969	224	224	3,354	460	2,894	196,341	147,515	48,826
1970	227	227	3,544	473	3,071	201,918	153,250	48,668
1971 ¹	224	249	3,397	407	2,990	214,680	164,764	49,916
B. Survey of Graduate Students and Postdoctorates in Science and Engineering ²								
Doctorate institutions:								
1972	260	328	4,593	780	3,813	210,895	161,329	49,566
1973	263	340	6,547	865	5,682	214,563	161,626	52,937
1974	277	365	7,439	1,350	6,089	258,897	190,395	68,502
1975	278	372	7,602	1,420	6,182	285,810	203,861	81,949
1976	283	378	7,675	1,452	6,223	289,004	207,043	81,961
1977	288	387	7,889	1,572	6,317	295,911	209,431	86,480
1978	311	419	8,122	1,731	6,391	298,884	208,527	90,357
1979	314	427	8,208	1,718	6,490	306,600	214,071	92,529
1980	322	437	8,407	1,857	6,550	320,298	221,079	99,219
1981	316	427	8,262	1,783	6,479	324,425	224,331	100,094
1982	317	431	8,162	1,812	6,350	332,735	227,825	104,910
1983	317	430	8,038	1,777	6,261	339,043	233,565	105,478
1984	317	434	8,110	1,816	6,294	344,744	236,388	108,356
1985	320	432	8,208	1,841	6,367	352,945	239,673	113,272
1986	322	436	8,291	1,859	6,432	364,245	248,741	115,504
1987	326	443	8,425	1,882	6,543	370,201	253,572	116,629
1988	339	457	8,699	1,991	6,708	376,337	258,896	117,441
1989	340	458	8,829	2,012	6,817	383,040	265,796	117,244
1990	339	457	8,973	2,062	6,911	397,820	274,645	123,175
1991	338	456	9,143	2,062	7,081	412,951	286,786	126,165
1992	339	457	9,374	2,105	7,269	431,675	300,536	131,139
1993	341	459	9,576	2,127	7,449	439,884	306,689	133,195
1994	340	458	9,783	2,181	7,602	440,285	308,340	131,945
1995	339	457	9,957	2,231	7,726	434,487	304,811	129,676
1996	341	459	9,993	2,303	7,690	430,006	303,745	126,261
1997	345	467	10,006	2,414	7,592	424,716	302,072	122,644
1998	347	468	10,115	2,454	7,661	424,061	302,069	121,992
1999	349	470	10,216	2,411	7,805	430,798	308,502	122,296
2000	353	474	10,318	2,514	7,804	434,300	315,724	118,576
2001	363	483	10,420	2,558	7,862	452,411	330,043	122,368

See explanatory information, if any, and SOURCE at end of table.

**Technical Table 2. Number of science, engineering, and health departments
in doctorate-granting institutions, by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	9,783	9,957	9,993	10,006	10,115	10,216	10,318	10,420
Total, science and engineering fields	6,987	7,107	7,119	7,173	7,263	7,321	7,424	7,496
Sciences, total	5,629	5,723	5,721	5,745	5,801	5,851	5,912	5,994
Physical sciences, total	560	568	566	572	579	578	583	589
Astronomy	34	35	35	35	36	36	38	38
Chemistry	262	262	264	267	269	271	273	277
Physics	249	251	249	253	256	248	246	245
Physical sciences, n.e.c.	15	20	18	17	18	23	26	29
Earth, atmos., & ocean sci., total	334	348	347	350	361	358	362	362
Atmospheric sciences	32	33	33	32	33	32	33	33
Geosciences	206	210	211	209	209	205	204	205
Oceanography	46	50	48	49	54	56	55	53
Earth, atmos., & ocean sci., n.e.c.	50	55	55	60	65	65	70	71
Mathematical sciences, total	382	387	388	389	388	386	390	398
Mathematics & applied mathematics	302	305	305	307	307	304	305	313
Statistics	80	82	83	82	81	82	85	85
Computer sciences	259	270	278	285	295	305	320	334
Agricultural sciences	316	322	316	327	331	328	331	336
Biological sciences, total	1,967	1,983	1,966	1,944	1,964	1,980	1,974	1,986
Anatomy	101	98	97	93	90	88	86	86
Biochemistry	189	191	190	191	191	193	186	183
Biology	225	225	229	239	245	244	247	249
Biometry/epidemiology	71	72	72	72	73	73	73	75
Biophysics	33	33	34	31	31	31	30	31
Botany	104	101	98	95	94	88	86	87
Cell biology	121	125	125	126	139	140	147	147
Ecology	31	31	30	30	30	35	36	38
Entomology/parasitology	49	48	48	48	49	47	46	46
Genetics	82	84	83	82	82	84	86	90
Microbio., immunology, & virology	258	262	261	251	254	261	260	255
Nutrition	119	123	123	122	124	124	124	122
Pathology	143	144	139	138	135	134	132	133
Pharmacology	169	169	164	159	158	162	160	161
Physiology	144	146	144	138	133	133	130	125
Zoology	49	48	44	40	39	39	35	34
Biosciences, n.e.c.	79	83	85	89	97	104	110	124
Psychology, total	530	546	552	562	569	586	593	610
Psychology, general	165	163	160	166	170	173	179	181
Clinical psychology	116	123	127	130	130	131	130	137
Psychology, n.e.c.	249	260	265	266	269	282	284	292
Social sciences, total	1,281	1,299	1,308	1,316	1,314	1,330	1,359	1,379
Agricultural economics	53	54	54	54	55	55	55	55
Anthropology (cultural & social)	132	135	135	139	136	135	133	131
Economics (except agricultural)	202	201	196	197	195	196	199	200
Geography	98	99	98	100	101	100	101	103
History and philosophy of science	21	21	23	23	23	24	26	28
Linguistics	69	70	72	71	70	71	72	72
Political science	320	326	329	332	333	338	346	348
Sociology	175	176	174	173	173	175	177	181
Sociology/anthropology	25	24	24	24	23	23	23	23
Social sciences, n.e.c.	186	193	203	203	205	213	227	238
Engineering, total	1,358	1,384	1,398	1,428	1,462	1,470	1,512	1,502
Aerospace engineering	52	53	52	54	54	56	57	55
Agricultural engineering	38	38	38	38	38	39	40	38
Biomedical engineering	57	59	61	64	72	77	81	81
Chemical engineering	141	141	143	144	145	147	149	147
Civil engineering	210	216	225	231	237	243	250	253
Electrical engineering	219	224	228	234	241	238	247	246
Engineering science	41	39	36	36	38	40	39	38
Industrial /manufacturing eng.	158	161	164	167	168	164	172	175
Mechanical engineering	183	185	185	187	190	188	191	190
Metallurgical/materials eng.	104	106	107	112	114	112	110	108
Mining engineering	29	26	24	24	24	24	25	24
Nuclear engineering	26	26	24	23	24	24	24	23
Petroleum engineering	19	20	19	18	17	16	18	17
Engineering, n.e.c.	81	90	92	96	100	102	109	107

See explanatory information, if any, and SOURCE at end of table.

**Technical Table 2. Number of science, engineering, and health departments
in doctorate-granting institutions, by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	2,796	2,850	2,874	2,833	2,852	2,895	2,894	2,924
Medical fields, total	2,081	2,120	2,121	2,062	2,061	2,081	2,041	2,038
Anesthesiology	87	87	89	88	88	85	86	87
Cardiology	70	71	71	71	71	72	71	70
Oncology/cancer research	50	55	57	62	63	71	70	74
Endocrinology	74	74	74	71	71	72	70	68
Gastroenterology	71	71	71	68	68	68	68	67
Hematology	73	73	72	71	69	72	71	70
Neurology	154	155	152	155	157	164	162	164
Obstetrics and gynecology	96	96	95	90	91	91	88	88
Ophthalmology	80	80	78	78	78	78	76	76
Otorhinolaryngology	72	72	72	68	64	64	62	63
Pediatrics	115	116	118	111	112	110	110	109
Preventive medicine/community health	181	186	187	186	193	198	196	193
Psychiatry	107	107	104	102	101	100	98	98
Pulmonary disease	68	69	68	66	67	66	64	64
Radiology	139	141	138	134	129	131	128	127
Surgery	251	257	259	245	244	246	240	239
Clinical medicine, n.e.c.	393	410	416	396	395	393	381	381
Other health fields, total	715	730	753	771	791	814	853	886
Dental sciences	88	87	86	81	78	79	82	83
Nursing	138	144	142	148	152	156	157	163
Pharmaceutical sciences	89	90	93	91	92	91	86	86
Speech pathology/audiology	132	133	135	139	141	142	150	155
Veterinary sciences	47	48	48	49	51	54	62	61
Health related, n.e.c.	221	228	249	263	277	292	316	338

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Technical Table 3. Number of science, engineering, and health departments
in master's-granting institutions, by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	1,583	1,610	1,587	1,584	1,571	1,613	1,581	1,548
Total, science and engineering fields	1,378	1,390	1,359	1,348	1,329	1,356	1,310	1,283
Sciences, total	1,186	1,195	1,171	1,162	1,153	1,164	1,135	1,097
Physical sciences, total	132	129	121	121	117	116	104	96
Astronomy	0	0	0	0	0	0	0	0
Chemistry	84	80	76	75	71	72	66	63
Physics	34	34	31	31	30	30	26	23
Physical sciences, n.e.c.	14	15	14	15	16	14	12	10
Earth, atmos., & ocean sci., total	57	63	61	63	62	64	65	64
Atmospheric sciences	1	2	2	2	2	1	1	1
Geosciences	28	29	28	28	27	29	31	31
Oceanography	7	7	6	7	7	8	8	7
Earth, atmos., & ocean sci., n.e.c.	21	25	25	26	26	26	25	25
Mathematical sciences, total	113	113	111	111	108	110	101	93
Mathematics & applied mathematics	107	107	106	106	103	105	97	88
Statistics	6	6	5	5	5	5	4	5
Computer sciences	94	95	95	91	89	92	97	98
Agricultural sciences	34	35	33	31	33	30	27	27
Biological sciences, total	183	187	182	178	175	179	179	177
Anatomy	0	0	0	0	0	0	0	0
Biochemistry	5	5	5	4	4	3	3	3
Biology	137	137	136	133	131	133	127	123
Biometry/epidemiology	0	0	0	0	0	0	0	0
Biophysics	0	0	0	0	0	0	0	0
Botany	2	2	2	2	2	2	2	2
Cell biology	1	2	1	3	3	3	4	5
Ecology	3	3	2	3	4	4	5	5
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	1	1	1	1	1	2	2	2
Microbio., immunology, & virology	2	2	2	3	2	2	3	3
Nutrition	16	18	17	14	14	15	14	13
Pathology	2	2	2	1	1	1	1	1
Pharmacology	0	0	0	0	1	1	1	1
Physiology	0	0	0	0	0	1	2	2
Zoology	2	2	2	2	2	2	2	2
Biosciences, n.e.c.	12	13	12	12	10	10	13	15
Psychology, total	246	243	244	249	244	250	249	232
Psychology, general	95	94	95	92	90	90	89	85
Clinical psychology	35	35	35	37	36	39	40	34
Psychology, n.e.c.	116	114	114	120	118	121	120	113
Social sciences, total	327	330	324	318	325	323	313	310
Agricultural economics	4	4	4	4	3	3	2	2
Anthropology (cultural & social)	11	11	11	11	11	13	13	13
Economics (except agricultural)	36	37	37	36	37	36	32	31
Geography	25	25	24	23	23	25	23	22
History and philosophy of science	0	0	0	0	2	2	3	4
Linguistics	7	7	7	7	7	7	7	7
Political science	115	117	115	112	112	112	112	108
Sociology	48	49	46	46	47	46	42	40
Sociology/anthropology	3	3	3	3	2	2	2	2
Social sciences, n.e.c.	78	77	77	76	81	77	77	81
Engineering, total	192	195	188	186	176	192	175	186
Aerospace engineering	4	4	3	3	3	3	3	3
Agricultural engineering	0	0	0	0	0	0	0	0
Biomedical engineering	4	4	3	4	4	4	4	4
Chemical engineering	8	9	9	8	7	7	6	7
Civil engineering	34	37	37	35	31	31	28	29
Electrical engineering	46	48	48	47	43	49	45	47
Engineering science	2	2	2	2	2	2	2	3
Industrial /manufacturing eng.	30	32	30	28	30	33	29	30
Mechanical engineering	26	27	25	24	23	26	23	26
Metallurgical/materials eng.	8	7	6	7	5	6	4	5
Mining engineering	4	2	2	2	2	2	2	2
Nuclear engineering	0	0	0	0	0	0	0	0
Petroleum engineering	2	2	2	1	1	1	1	1
Engineering, n.e.c.	24	21	21	25	25	28	28	29

See explanatory information, if any, and SOURCE at end of table.

**Technical Table 3. Number of science, engineering, and health departments
in master's-granting institutions, by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	205	220	228	236	242	257	271	265
Medical fields, total	19	20	18	18	20	20	20	21
Anesthesiology	4	4	3	4	4	4	4	4
Cardiology	0	0	0	0	0	0	0	0
Oncology/cancer research	0	0	0	0	0	0	0	0
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology	0	0	0	0	0	0	0	0
Obstetrics and gynecology	0	0	0	0	0	0	0	0
Ophthalmology	1	1	1	1	1	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0
Pediatrics	0	0	0	0	0	0	0	0
Preventive medicine/community health	9	9	9	8	9	9	8	8
Psychiatry	2	2	1	1	1	1	1	1
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	0	1	1	1	1	1	1	1
Surgery	0	0	0	0	0	0	0	0
Clinical medicine, n.e.c.	3	3	3	3	4	5	6	7
Other health fields, total	186	200	210	218	222	237	251	244
Dental sciences	0	0	0	0	0	0	0	0
Nursing	60	69	72	75	76	82	87	87
Pharmaceutical sciences	1	1	1	1	2	2	2	2
Speech pathology/audiology	60	62	65	65	66	69	70	64
Veterinary sciences	1	1	1	1	1	1	0	1
Health related, n.e.c.	64	67	71	76	77	83	92	90

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 4. Original departmental response rates: 1975-2001

Year	Total	Complete response		Partial response		Non-response	
		Number	Percent	Number	Percent	Number	Percent
1975 ¹	9,162	8,998	98.2	na	na	na	na
1976	9,275	9,148	98.6	na	na	na	na
1977	9,513	9,432	99.1	na	na	na	na
1978 ²	8,242	8,077	98.0	na	na	na	na
1979	9,796	9,446	96.4	na	na	na	na
1980	9,930	9,593	96.6	na	na	na	na
1981	9,917	8,594	86.7	613	6.2	710	7.2
1982	9,776	8,104	82.9	744	7.6	928	9.5
1983	9,663	8,070	83.5	816	8.4	777	8.0
1984 ³	8,748	7,490	85.6	643	7.4	615	7.0
1985 ³	9,025	7,818	86.6	672	7.4	535	5.9
1986 ³	9,097	7,817	85.9	779	8.6	501	5.5
1987 ³	9,254	8,030	86.8	715	7.7	509	5.5
1988	10,295	8,812	85.6	970	9.4	513	5.0
1989	10,318	8,908	86.3	891	8.6	519	5.0
1990	10,483	8,884	84.7	1,053	10.0	546	5.2
1991	10,705	9,052	84.6	1,186	11.1	467	4.4
1992	10,936	9,066	82.9	1,538	14.1	332	3.0
1993	11,146	9,156	82.1	1,555	14.0	435	3.9
1994	11,411	8,863	77.7	2,109	18.5	439	3.8
1995	11,598	9,514	82.0	1,730	14.9	354	3.1
1996	11,592	9,851	85.0	1,522	13.1	219	1.9
1997	11,597	9,720	83.8	1,665	14.4	212	1.8
1998	11,718	9,822	83.8	1,706	14.6	190	1.6
1999	11,833	9,396	79.4	2,289	19.3	148	1.3
2000	11,899	9,818	82.5	1,965	16.5	116	1.0
2001	11,967	10,121	84.6	1,731	14.5	115	1.0

¹ The 1976 survey also collected 1975 data from master's-granting institutions.

² Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

³ These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

NOTE: Departments providing partial responses are included in the complete response column prior to 1981 and reported separately beginning in 1981.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Technical Table 5. Imputation for nonresponse in doctorate-granting institutions,
by field and enrollment status: 1999-2001**

Area of science and engineering	Number of graduate departments		Graduate enrollment									
	In universe	Totally imputed	Total in survey			Number imputed			Imputation rate (percent)			
			Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	
Fall 2001												
Total, all areas	10,420	109	330,043	122,368	42,899	2,232	2,695	156	0.7	2.2	0.4	
Physical sciences	589	3	26,721	3,256	6,152	12	16	0	.0	.5	.0	
Earth, atmospheric, & ocean sciences	362	2	10,014	2,610	1,035	60	24	0	.6	.9	.0	
Mathematical sciences	398	4	11,992	3,093	352	44	55	0	.4	1.8	.0	
Computer sciences	334	7	26,977	16,883	357	401	283	0	1.5	1.7	.0	
Agricultural sciences	336	2	8,649	2,336	794	14	8	0	.2	.3	.0	
Biological sciences	1,986	19	46,676	7,423	16,913	299	338	90	.6	4.6	.5	
Psychology	610	16	28,471	10,860	828	352	312	3	1.2	2.9	.4	
Social sciences	1,379	23	50,792	23,855	427	295	442	0	.6	1.9	.0	
Engineering	1,502	8	75,703	27,761	3,113	137	180	27	.2	.6	.9	
Health fields	2,924	25	44,048	24,291	12,928	618	1,037	36	1.4	4.3	.3	
Fall 2000												
Total, all areas	10,318	103	315,724	118,576	43,044	2,126	2,236	122	0.7	1.9	0.3	
Physical sciences	583	3	26,089	3,247	6,202	12	17	0	.0	.5	.0	
Earth, atmospheric, & ocean sciences	362	1	10,102	2,605	1,155	3	24	0	.0	.9	.0	
Mathematical sciences	390	3	11,130	2,693	383	24	40	0	.2	1.5	.0	
Computer sciences	320	5	23,242	16,390	363	130	243	0	.6	1.5	.0	
Agricultural sciences	331	0	8,661	2,236	784	0	0	0	.0	.0	.0	
Biological sciences	1,974	11	45,305	7,210	16,764	271	83	64	.6	1.2	.4	
Psychology	593	16	28,338	9,506	728	535	262	1	1.9	2.8	.1	
Social sciences	1,359	21	48,816	23,056	467	338	590	2	.7	2.6	.4	
Engineering	1,512	14	70,878	28,086	3,309	177	192	13	.2	.7	.4	
Health fields	2,894	29	43,163	23,547	12,889	636	785	42	1.5	3.3	.3	
Fall 1999												
Total, all areas	10,216	122	308,502	122,296	40,667	4,296	2,991	472	1.4	2.4	1.2	
Physical sciences	578	8	26,128	3,323	6,092	328	41	42	1.3	1.2	.7	
Earth, atmospheric, & ocean sciences	358	3	10,029	2,761	923	47	1	6	.5	.0	.7	
Mathematical sciences	386	6	11,137	3,051	351	110	42	0	1.0	1.4	.0	
Computer sciences	305	6	20,073	15,003	330	219	177	0	1.1	1.2	.0	
Agricultural sciences	328	4	8,634	2,482	704	178	77	8	2.1	3.1	1.1	
Biological sciences	1,980	14	45,178	7,678	16,123	500	155	210	1.1	2.0	1.3	
Psychology	586	13	28,461	10,527	710	626	425	10	2.2	4.0	1.4	
Social sciences	1,330	23	49,473	23,492	454	660	742	5	1.3	3.2	1.1	
Engineering	1,470	16	66,004	29,329	3,187	668	633	39	1.0	2.2	1.2	
Health fields	2,895	29	43,385	24,650	11,793	960	698	152	2.2	2.8	1.3	

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Technical Table 6. Imputation for nonresponse in master's-granting institutions,
by field and enrollment status: 1999-2001**

Area of science and engineering	Number of graduate departments		Graduate enrollment									
			Total in survey			Number imputed			Imputation rate (percent)			
	In universe	Totally imputed	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	
Fall 2001												
Total, all areas	1,548	6	25,072	32,673	90	61	96	0	0.2	0.3	0.0	
Physical sciences	96	1	408	603	60	4	0	0	1.0	.0	.0	
Earth, atmospheric, & ocean sciences	64	0	490	727	0	0	0	0	.0	.0	0	
Mathematical sciences	93	0	506	1,072	2	0	0	0	.0	.0	0	
Computer sciences	98	0	3,121	5,215	4	0	0	0	.0	.0	0	
Agricultural sciences	27	0	553	373	5	0	0	0	.0	.0	0	
Biological sciences	177	3	1,675	2,052	8	11	19	0	.7	.9	0	
Psychology	232	1	6,062	5,405	2	38	17	0	.6	.3	0	
Social sciences	310	0	3,797	7,319	1	0	0	0	.0	.0	0	
Engineering	186	0	1,869	4,173	5	0	0	0	.0	.0	0	
Health fields	265	1	6,591	5,734	3	8	60	0	.1	1.0	0	
Fall 2000												
Total, all areas	1,581	13	26,381	34,016	93	186	583	0	0.7	1.7	0.0	
Physical sciences	104	0	463	664	68	0	0	0	.0	.0	0	
Earth, atmospheric, & ocean sciences	65	0	457	776	0	0	0	0	.0	.0	0	
Mathematical sciences	101	1	602	1,221	2	4	7	0	.7	.6	0	
Computer sciences	97	1	3,402	4,560	3	21	63	0	.6	1.4	0	
Agricultural sciences	27	0	452	335	2	0	0	0	.0	.0	0	
Biological sciences	179	2	1,721	2,258	6	54	18	0	3.1	.8	0	
Psychology	249	3	6,743	6,117	2	69	88	0	1.0	1.4	0	
Social sciences	313	5	3,913	7,689	4	34	312	0	.9	4.1	0	
Engineering	175	0	1,706	4,014	4	0	0	0	.0	.0	0	
Health fields	271	1	6,922	6,382	2	4	95	0	.1	1.5	0	
Fall 1999												
Total, all areas	1,613	22	25,919	36,693	104	537	694	0	2.1	1.9	0.0	
Physical sciences	116	2	507	733	65	1	2	0	.2	.3	0	
Earth, atmospheric, & ocean sciences	64	0	455	838	2	0	0	0	.0	.0	0	
Mathematical sciences	110	1	659	1,410	0	5	7	0	.8	.5	0	
Computer sciences	92	0	2,635	4,849	4	0	0	0	.0	.0	0	
Agricultural sciences	30	0	522	350	8	0	0	0	.0	.0	0	
Biological sciences	179	3	1,929	2,330	6	65	33	0	3.4	1.4	0	
Psychology	250	7	6,244	6,632	6	272	265	0	4.4	4.0	0	
Social sciences	323	4	3,824	8,219	0	25	275	0	.7	3.3	0	
Engineering	192	0	2,019	4,339	9	0	0	0	.0	.0	0	
Health fields	257	5	7,125	6,993	4	169	112	0	2.4	1.6	0	

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Technical Table 7. Imputation rates for all departments
at all graduate institutions: Fall 2001**

[Number of imputed departments = 1,846]

Item 5. Full-time graduate students by source and mechanism of the largest amount of support received

Mechanism of support and sex of S&E full-time S&E graduate students	Students receiving financial assistance											Self support (includ. loans & family sources)	Total for all sources (sum of columns A - L)		
	Federal sources (excluding loans)							Non-Federal sources							
	HHS		NSF	Dept. of Agr.	NASA	DOE	Other Federal sources	Inst. support	Foreign sources	Other U.S. sources					
	DoD	NIH	Other HHS												
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)		
Full-time graduate S&E students:															
Graduate fellowships	14.1	4.8	6.8	8.9	10.4	10.2	10.7	5.4	8.6	8.8	11.9	N/A	8.4		
Graduate traineeships	6.7	9.1	12.3	18.4	43.8	1.9	0.0	7.2	10.0	12.3	20.1	N/A	10.3		
Graduate research asstships	15.3	12.4	2.7	13.8	8.6	14.4	3.1	14.8	11.4	8.5	12.8	N/A	11.5		
Graduate teaching asstships	N/A	0.0	1.9	4.9	8.7	0.0	0.0	4.8	11.5	N/A	16.8	N/A	10.4		
Other types of support	6.3	5.3	0.4	7.8	0.0	0.0	0.0	10.9	13.4	12.2	11.7	19.0	17.5		
Full-time total	13.4	10.7	8.3	12.9	8.8	13.2	3.3	11.6	11.2	10.2	12.9	19.0	0.6		
Full-time women	15.1	10.8	11.3	10.9	9.4	12.0	3.3	12.4	12.7	14.1	12.8	21.6	1.3		

Items 6 and 7. Race/ethnicity of part-time and full-time graduate students by sex

Enrollment status and sex of S&E graduate students	U.S. citizens and permanent residents									Foreign (temporary visa holders)	Total (sum of columns A - J)		
	One race only: Non-Hispanic/Latino					One race only		More than one race					
	Black/ African American	American Indian/ Alaska Native	Asian	Native Hawaiian/ Pacific Islander	White	Hispanic/ Latino	Hispanic/ Latino	Non- Hispanic/ Latino	Unknown				
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)		
Item 6													
Part-time, total	6.1	1.4	2.7	0.4	3.5	1.9	0.0	0.0	4.6	4.9	1.8		
Men enrolled part-time	5.0	2.6	2.5	0.5	3.1	1.9	0.0	0.0	3.5	5.0	2.3		
Women enrolled part-time	6.6	0.5	2.9	0.4	3.8	1.9	0.0	0.0	5.9	4.7	2.8		
Item 7													
Full-time, total	5.1	1.0	1.5	7.9	3.3	1.0	0.3	0.7	1.9	3.8	0.6		
Men enrolled full-time	4.6	1.1	1.6	7.0	4.0	1.2	0.7	1.6	2.9	4.1	1.9		
Women enrolled full-time	5.6	1.1	1.7	8.6	3.1	1.1	0.1	8.1	1.1	3.1	1.3		
Full-time first-time total	2.9	0.3	2.8	0.0	4.1	1.6	0.0	1.7	2.0	3.2	0.4		
Full-time first-time women	2.8	0.5	2.0	0.0	3.5	1.2	0.0	0.0	1.4	3.7	0.6		

Item 8. S&E postdoctorates and nonfaculty research staff with doctorates

Sex and type of doctorate	Postdoctorates						Other non- faculty research staff with doctor- ates	Total for all sources (A - D)	Foreign postdoc- torates (F)									
	Source of support			Non- Federal														
	Federal																	
	Fellow- ships	Trainee- ships	Research grants															
	(A)	(B)	(C)	(D)	(E)	(F)	(G)											
Total	12.7	4.9	4.6	5.3	0.4	1.9	1.8											
Women	11.5	4.6	4.4	5.1	2.1	1.9	1.7											
With MD, DO, DDS or DVM degrees	17.4	3.1	3.6	3.1	1.8	2.0	0.9											

KEY: DoD = Department of Defense
DOE = Department of Energy
HHS = Department of Health & Human Services
NASA = National Aeronautics & Space Administration
NIH = National Institutes of Health
NSF = National Science Foundation
N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 8. Comparison of graduate enrollment data as originally published and as modified through the fall 2001 graduate student survey cycle: 1975-2001

Page 1 of 2

Year	Total, all institutions			Doctorate-granting institutions			Master's-granting institutions		
	Original total	Revised total	Percent change	Original total	Revised total	Percent change	Original total	Revised total	Percent change
Total graduate enrollment in surveyed fields									
1975 ¹	336,843	328,510	-2.5	290,662	285,810	-1.7	46,181	42,700	-7.5
1976	345,979	333,716	-3.5	297,280	289,004	-2.8	48,699	44,712	-8.2
1977	362,978	345,374	-4.8	306,710	295,911	-3.5	56,268	49,463	-12.1
1978 ²	na	339,912	na	311,982	298,884	-4.2	na	41,028	na
1979	375,267	357,578	-4.7	321,770	306,600	-4.7	53,497	50,978	-4.7
1980	383,210	367,078	-4.2	333,658	320,298	-4.0	49,552	46,780	-5.6
1981	392,034	375,130	-4.3	340,203	324,425	-4.6	51,831	50,705	-2.2
1982	399,682	382,291	-4.4	347,414	332,735	-4.2	52,268	49,556	-5.2
1983	413,564	390,432	-5.6	358,276	339,043	-5.4	55,288	51,389	-7.1
1984 ³	415,064	394,670	-4.9	363,470	344,744	-5.2	51,594	49,926	-3.2
1985 ³	434,836	404,021	-7.1	371,052	352,945	-4.9	63,784	51,076	-19.9
1986 ³	446,102	415,520	-6.9	384,203	364,245	-5.2	61,899	51,275	-17.2
1987 ³	449,585	421,497	-6.2	388,681	370,201	-4.8	60,904	51,296	-15.8
1988	445,595	424,523	-4.7	391,683	376,337	-3.9	53,912	48,186	-10.6
1989	440,983	434,478	-1.5	385,025	383,040	-.5	55,958	51,438	-8.1
1990	458,943	452,113	-1.5	398,405	397,762	-.2	60,538	54,351	-10.2
1991	475,691	471,212	-.9	411,296	412,879	.4	64,395	58,333	-9.4
1992	495,397	493,522	-.4	427,792	431,573	.9	67,605	61,949	-8.4
1993	506,678	504,304	-.5	440,875	439,779	-.2	65,803	64,525	-1.9
1994	506,626	504,399	-.4	441,480	440,168	-.3	65,146	64,231	-1.4
1995	501,510	499,640	-.4	436,328	434,377	-.4	65,182	65,263	.1
1996	494,526	494,079	-.1	430,631	429,890	-.2	63,895	64,189	.5
1997	487,104	487,208	.0	424,650	424,608	-.0	62,454	62,600	.2
1998	485,754	485,627	.0	422,834	423,928	.3	62,920	61,699	-1.9
1999	493,425	493,410	.0	432,657	430,798	-.4	60,768	62,612	3.0
2000	494,594	494,671	.0	435,612	434,274	-.3	58,982	60,397	2.4
2001	510,156	na	na	452,411	na	na	57,745	na	na
Full-time									
1975 ¹	228,316	219,648	-3.8	210,641	203,861	-3.2	17,675	15,787	-10.7
1976	233,748	223,412	-4.4	215,355	207,043	-3.9	18,393	16,369	-11.0
1977	238,202	226,738	-4.8	218,226	209,431	-4.0	19,976	17,307	-13.4
1978 ²	na	223,030	na	217,588	208,527	-4.2	na	14,503	na
1979	243,331	231,760	-4.8	224,057	214,071	-4.5	19,274	17,689	-8.2
1980	249,111	238,416	-4.3	230,601	221,079	-4.1	18,510	17,337	-6.3
1981	253,428	242,049	-4.5	234,529	224,331	-4.3	18,899	17,718	-6.2
1982	255,959	244,757	-4.4	237,676	227,825	-4.1	18,283	16,932	-7.4
1983	263,800	252,017	-4.5	243,646	233,565	-4.1	20,154	18,452	-8.4
1984 ³	264,146	253,922	-3.9	246,848	236,388	-4.2	17,298	17,534	1.4
1985 ³	269,319	257,287	-4.5	249,666	239,673	-4.0	19,653	17,614	-10.4
1986 ³	279,235	266,168	-4.7	259,980	248,741	-4.3	19,255	17,427	-9.5
1987 ³	285,200	271,056	-5.0	264,862	253,572	-4.3	20,338	17,484	-14.0
1988	288,619	275,127	-4.7	268,385	258,896	-3.5	20,234	16,231	-19.8
1989	286,619	282,648	-.4	267,554	265,796	-.7	19,065	16,852	-11.6
1990	295,836	292,782	-1.0	275,262	274,604	-.2	20,574	18,178	-11.6
1991	308,669	307,010	-.5	286,756	286,741	-.0	21,913	20,269	-7.5
1992	323,399	322,555	-.3	299,753	300,482	.2	23,646	22,073	-6.7
1993	330,249	329,644	-.2	307,181	306,632	-.2	23,068	23,012	-.2
1994	331,969	332,088	.0	307,964	308,279	.1	24,005	23,809	-.8
1995	330,235	329,283	-.3	305,652	304,738	-.3	24,583	24,545	-.2
1996	328,368	328,536	.1	303,586	303,653	-.0	24,782	24,883	.4
1997	326,842	327,289	.1	301,573	301,976	.1	25,269	25,313	.2
1998	327,609	327,389	-.1	301,544	301,936	.1	26,065	25,453	-2.3
1999	334,405	334,421	.0	309,466	308,502	-.3	24,939	25,919	3.9
2000	342,121	342,079	.0	316,531	315,698	-.3	25,590	26,381	3.1
2001	355,115	na	na	330,043	na	na	25,072	na	na

See explanatory information, if any, and SOURCE at end of table.

Technical Table 8. Comparison of graduate enrollment data as originally published and as modified through the fall 2001 graduate student survey cycle: 1975-2001

Page 2 of 2

Year	Total, all institutions			Doctorate-granting institutions			Master's-granting institutions		
	Original total	Revised total	Percent change	Original total	Revised total	Percent change	Original total	Revised total	Percent change
Part-time									
1975 ¹	108,527	108,862	0.3	80,021	81,949	2.4	28,506	26,913	-5.6
1976	112,231	110,304	-1.7	81,925	81,961	.0	30,306	28,343	-6.5
1977	124,776	118,636	-4.9	88,484	86,480	-2.3	36,292	32,156	-11.4
1978 ²	na	116,882	na	94,394	90,357	-4.3	na	26,525	na
1979	131,936	125,818	-4.6	97,713	92,529	-5.3	34,223	33,289	-2.7
1980	134,099	128,662	-4.1	103,057	99,219	-3.7	31,042	29,443	-5.2
1981	138,606	133,081	-4.0	105,674	100,094	-5.3	32,932	32,987	.2
1982	143,723	137,534	-4.3	109,738	104,910	-4.4	33,985	32,624	-4.0
1983	149,764	138,415	-7.6	114,630	105,478	-8.0	35,134	32,937	-6.3
1984 ³	150,918	140,748	-6.7	116,622	108,356	-7.1	34,296	32,392	-5.6
1985 ³	165,517	146,734	-11.3	121,386	113,272	-6.7	44,131	33,462	-24.2
1986 ³	166,867	149,352	-10.5	124,223	115,504	-7.0	42,644	33,848	-20.6
1987 ³	164,385	150,441	-8.5	123,819	116,629	-5.8	40,566	33,812	-16.6
1988	156,976	149,396	-4.8	123,298	117,441	-4.8	33,678	31,955	-5.1
1989	154,364	151,830	-1.6	117,471	117,244	-.2	36,893	34,586	-6.3
1990	163,107	159,331	-2.3	123,143	123,158	.0	39,964	36,173	-9.5
1991	167,022	164,202	-1.7	124,540	126,138	1.3	42,482	38,064	-10.4
1992	171,998	170,967	-.6	128,039	131,091	2.4	43,959	39,876	-9.3
1993	176,429	174,660	-1.0	133,694	133,147	-.4	42,735	41,513	-2.9
1994	174,657	172,311	-1.3	133,516	131,889	-1.2	41,141	40,422	-1.7
1995	171,275	170,357	-.5	130,676	129,639	-.8	40,599	40,718	.3
1996	166,158	165,543	-.4	127,045	126,237	-.6	39,113	39,306	.5
1997	160,262	159,919	-.2	123,077	122,632	-.4	37,185	37,287	.3
1998	158,145	158,238	.1	121,290	121,992	.6	36,855	36,246	-1.7
1999	159,020	158,989	.0	123,191	122,296	-.7	35,829	36,693	2.4
2000	152,473	152,592	.1	119,081	118,576	-.4	33,392	34,016	1.9
2001	155,041	na	na	122,368	na	na	32,673	na	na

¹ The 1976 survey also collected 1975 data from master's-granting institutions.

² Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

³ These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

NOTE: The percent change column is presented as a measure of retroactive changes in survey definitions. Three survey changes in the late 1980s and early 1990s had a retroactive effect on figures reported for earlier years. First, degree-granting status (doctorate or master's) used to be determined by an institution's status each year. Beginning in 1992, degree-granting status was determined by the status reported in the latest survey year. This change shifted numerous institutions (and students) from master's-granting to doctorate-granting categories for years before 1992. Second, in 1988 guidelines to determine S&E departments were tightened. This change meant retroactively dropping departments in fields like educational psychology, social work, and cultural studies from the survey population. Third, improved estimates were generated for years in which enrollments at master's-granting institutions were sampled (1984-87).

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

LIST OF DETAILED STATISTICAL TABLES

<i>Table</i>	<i>Page</i>
ALL INSTITUTIONS	
LONG-TERM TRENDS (1975–2001)	
1. Total enrollment in all institutions of higher education, by level of enrollment, broad field, and location: 1975–2001(selected years)	27
2. Graduate students in science, engineering, and health fields in all institutions, by field: 1975–2001	28
3. Male graduate students in science, engineering, and health fields in all institutions, by field: 1975–2001	29
4. Female graduate students in science, engineering, and health fields in all institutions, by field: 1975–2001	30
5. Full-time graduate students in science, engineering, and health fields in all institutions, by field: 1975–2001	31
6. Male full-time graduate students in science, engineering, and health fields in all institutions, by field: 1975–2001	32
7. Female full-time graduate students in science, engineering, and health fields in all institutions, by field: 1975–2001	33
8. Full-time graduate students with U.S. citizenship or permanent resident status in science, engineering, and health fields in all institutions, by field: 1975–2001	34
9. Full-time graduate students without U.S. citizenship or permanent resident status in science, engineering, and health fields in all institutions, by field: 1975–2001	35
TRENDS BY DETAILED FIELD (1994–2001)	
10. Graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	36
11. Male graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	38
12. Female graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	40

<i>Table</i>	<i>Page</i>
13. Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994–2001	42
14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994–2001	45
15. Female graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994–2001	48
16. Graduate students in science, engineering, and health fields in public institutions, by detailed field: 1994–2001	51
17. Graduate students in science, engineering, and health fields in private institutions, by detailed field: 1994–2001	53
18. Full-time graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	55
19. Male full-time graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	57
20. Female full-time graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	59
21. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994–2001	61
22. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in all institutions, by detailed field: 1994–2001	64
23. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary source of support: 1994–2001	66
24. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary mechanism of support: 1994–2001	71
25. Full-time graduate students in science and engineering fields in all institutions, by primary mechanism and primary source of support: 1994–2001	74
26. Full-time students in graduate school for the first time in science, engineering, and health fields in all institutions, by detailed field: 1994–2001	76

<i>Table</i>	<i>Page</i>
--------------	-------------

CURRENT YEAR TABLES BY SEX, DETAILED FIELD, CITIZENSHIP, AND RACE/ETHNICITY

27. Graduate students in science, engineering, and health fields in all institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001	78
28. Male graduate students in science, engineering, and health fields in all institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001	80
29. Female graduate students in science, engineering, and health fields in all institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001	82

CURRENT YEAR TABLES BY INSTITUTION AND GEOGRAPHIC AREA

30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001	84
31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001	97

DOCTORATE-GRANTING INSTITUTIONS

32. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1994–2001	110
33. Graduate students in science, engineering, and health fields in public doctorate-granting institutions, by detailed field: 1994–2001	112
34. Graduate students in science, engineering, and health fields in private doctorate-granting institutions, by detailed field: 1994–2001	114
35. Graduate students in science and engineering fields in doctorate-granting institutions, by enrollment status, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994–2001	116
36. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001	117

<i>Table</i>	<i>Page</i>
37. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1994–2001	119
38. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1994–2001	121
39. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary mechanism of support: 1994–2001	126
40. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field and primary mechanism of support: 2001	128
41. Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support: 1994–2001	130
42. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by sex, primary source of support, and field: 2001	132
43. Full-time graduate science, engineering, and health students with U.S. citizenship or permanent resident status in doctorate-granting institutions, by detailed field: 1994–2001	134
44. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in doctorate-granting institutions, by detailed field: 1994–2001	136
45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994–2001	138
46. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field: 1994–2001	144
47. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field, source of support, and citizenship: 2001	146
48. Total postdoctoral appointees in doctorate-granting institutions, by area of study, ranked by total postdoctoral appointees: 2001	148
49. Nonfaculty research scientists, engineers, and health professionals with doctorates in doctorate-granting institutions, by detailed field: 1994–2001	153
HISTORICALLY BLACK COLLEGES AND UNIVERSITIES	
50. Graduate students in science, engineering, and health fields in historically black colleges and universities (HBCUs), by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001	155

<i>Table</i>	<i>Page</i>
51. Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field: 1994–2001	157
52. Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field and sex: 1996–2001	158
53. Full-time black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field: 1994–2001	159
54. Full-time black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field and sex: 1996–2001	160

Table 1. Total enrollment in all institutions of higher education, by level of enrollment, broad field, and location: 1975-2001 (selected years)

Year	Total	Under-graduate enrollment	Graduate enrollment					First professional enrollment
			Total, all fields	Sciences	Engineering	Health fields	All other fields	
Total, all U.S. institutions								
1975	11,289,129	9,777,634	1,267,537	234,649	68,332	25,529	939,027	243,958
1980	12,234,644	10,603,579	1,351,268	251,239	74,335	41,504	984,190	279,797
1985 ¹	12,411,945	10,749,752	1,384,862	261,950	96,018	46,053	980,841	277,331
1990	13,983,255	12,110,847	1,596,037	289,347	107,658	55,108	1,143,924	276,371
1991	14,527,724	12,595,335	1,648,952	299,012	113,535	58,665	1,177,740	283,437
1992	14,657,118	12,693,778	1,679,644	312,442	118,039	63,041	1,186,122	283,696
1993	14,477,792	12,482,813	1,699,292	318,831	116,872	68,601	1,194,988	295,687
1994	14,449,476	12,417,701	1,734,371	318,090	113,024	73,285	1,229,972	297,404
1995	14,445,438	12,399,826	1,745,130	315,237	107,201	77,202	1,245,490	300,482
1996	14,550,056	12,492,977	1,755,635	311,924	103,224	78,931	1,261,556	301,444
1997	14,680,488	12,612,475	1,766,705	306,449	101,148	79,611	1,279,497	301,308
1998	14,711,280	12,624,375	1,781,327	304,771	100,038	80,818	1,295,700	305,578
1999	na	na	na	309,566	101,691	82,153	na	na
2000	15,506,922	13,329,803	1,867,092	309,999	104,684	79,988	1,372,421	310,027
2001	na	na	na	319,986	109,506	80,664	na	na
Subtotal, 50 States and DC								
1975	11,184,859	9,679,455	1,263,137	233,774	68,278	25,183	935,902	242,267
1980	12,096,895	10,475,055	1,344,073	249,741	74,287	41,168	978,877	277,767
1985 ¹	12,247,055	10,596,674	1,376,181	242,044	94,041	41,687	998,409	274,200
1990	13,818,637	11,959,106	1,586,165	287,677	107,549	54,512	1,136,427	273,366
1991	14,358,953	12,439,287	1,639,135	297,207	113,367	58,036	1,170,525	280,531
1992	14,487,359	12,537,700	1,668,737	310,628	117,829	62,305	1,177,975	280,922
1993	14,304,803	12,323,959	1,688,413	316,971	116,659	67,862	1,186,921	292,431
1994	14,278,790	12,262,608	1,721,469	316,206	112,827	72,511	1,219,925	294,713
1995	14,261,781	12,231,719	1,732,470	313,213	106,984	76,308	1,235,965	297,592
1996	14,367,520	12,326,948	1,742,260	309,915	102,970	78,115	1,251,260	298,312
1997	14,502,334	12,450,587	1,753,489	304,409	100,865	79,027	1,269,188	298,258
1998	14,530,036	12,460,006	1,767,557	302,497	99,771	80,240	1,285,049	302,473
1999	na	na	na	307,130	101,444	81,370	na	na
2000	15,312,289	13,155,393	1,850,271	307,247	104,405	79,004	1,359,615	306,625
2001	na	na	na	317,139	109,203	79,616	na	na
Outlying areas								
1975	104,270	98,179	4,400	875	54	346	3,125	1,691
1980	137,749	128,524	7,195	1,498	48	336	5,313	2,030
1985 ¹	164,890	153,078	8,681	1,898	102	552	6,129	3,131
1990	164,618	151,741	9,872	1,670	109	596	7,497	3,005
1991	168,771	156,048	9,817	1,805	168	629	7,215	2,906
1992	169,759	156,078	10,907	1,814	210	736	8,147	2,774
1993	172,989	158,854	10,879	1,860	213	739	8,067	3,256
1994	170,686	155,093	12,902	1,884	197	774	10,047	2,691
1995	183,657	168,107	12,660	2,024	217	894	9,525	2,890
1996	182,536	166,029	13,375	2,009	254	816	10,296	3,132
1997	178,154	161,888	13,216	2,040	283	584	10,309	3,050
1998	181,244	164,369	13,770	2,274	267	578	10,651	3,105
1999	na	na	na	2,436	247	783	na	na
2000	194,633	174,410	16,821	2,752	279	984	12,806	3,402
2001	na	na	na	2,847	303	1,048	na	na

¹ National Science Foundation figures for 1985 include estimates for master's-granting institutions.

KEY: na = Not available

SOURCES: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Fall Enrollment Survey, and National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 2. Graduate students in science, engineering, and health fields in all institutions,
by field: 1975-2001**

Year	Total, science and engi- neering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmos- pheric, & ocean sciences	Mathe- matical sciences	Computer sciences	Agricul- tural sciences	Biological sciences	Psychology	Social sciences	
1975	302,981	234,649	26,310	12,079	16,892	8,415	10,641	46,348	36,191	77,773	
1976	305,398	238,675	26,641	12,809	17,071	8,627	11,219	47,661	37,458	77,189	
1977	311,689	242,932	26,864	13,446	16,052	9,108	11,605	49,182	38,617	78,058	
1978 ¹	304,245	236,458	26,282	13,268	14,812	9,847	11,779	47,867	37,522	75,081	
1979	319,030	247,222	26,701	13,731	15,031	11,690	12,160	48,137	39,766	80,006	
1980	325,574	251,239	26,934	14,051	15,311	13,578	12,429	47,521	40,610	80,805	
1981	331,964	252,379	27,360	14,263	15,881	16,437	12,325	46,562	40,666	78,885	
1982	338,849	255,129	28,188	15,018	17,157	19,812	12,550	45,903	40,073	76,428	
1983	346,952	255,806	29,463	15,443	17,358	23,333	12,402	45,579	40,905	71,323	
1984 ²	349,617	256,878	30,061	15,500	17,443	25,526	12,199	45,682	40,931	69,536	
1985 ²	357,968	261,950	30,987	15,414	17,563	29,769	11,534	46,021	40,721	69,941	
1986 ²	367,964	266,059	32,259	15,053	17,949	31,349	11,427	46,646	41,241	70,135	
1987 ²	373,199	269,216	32,741	14,357	18,508	32,051	11,088	46,620	42,612	71,239	
1988	375,128	272,274	32,975	13,854	19,077	32,227	11,110	47,437	43,963	71,631	
1989	382,603	278,538	33,629	13,630	19,247	32,482	11,168	48,723	45,528	74,131	
1990	397,005	289,347	34,082	13,977	19,774	34,257	11,283	49,866	48,167	77,941	
1991	412,547	299,012	34,724	14,466	19,952	34,681	11,476	51,635	51,343	80,735	
1992	430,481	312,442	35,357	15,324	20,355	36,325	11,805	54,026	53,484	85,766	
1993	435,703	318,831	35,328	15,721	20,000	36,213	11,950	56,292	54,557	88,770	
1994	431,114	318,090	34,466	15,957	19,573	34,158	12,242	58,033	54,554	89,107	
1995	422,438	315,237	33,399	15,716	18,504	33,458	12,422	58,680	53,641	89,417	
1996	415,148	311,924	32,333	15,183	18,008	34,626	11,974	58,060	53,122	88,618	
1997	407,597	306,449	31,105	14,548	16,719	35,991	11,852	57,044	53,126	86,064	
1998	404,809	304,771	30,575	14,258	16,485	38,027	11,844	56,994	52,557	84,031	
1999	411,257	309,566	30,691	14,083	16,257	42,560	11,988	57,115	51,864	85,008	
2000	414,683	309,999	30,463	13,940	15,646	47,594	11,684	56,494	50,704	83,474	
2001	429,492	319,986	30,988	13,841	16,663	52,196	11,911	57,826	50,798	85,763	
Engineering											
Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering			
1975	68,332	1,670	5,095	12,560	16,320	11,663	8,601	2,376	10,047	25,529	
1976	66,723	1,477	5,271	11,995	15,926	10,687	8,313	2,398	10,656	28,318	
1977	68,757	1,518	5,273	12,335	17,406	10,438	8,722	2,585	10,480	33,685	
1978 ¹	67,787	1,463	5,431	12,358	17,127	9,494	8,638	2,592	10,684	35,667	
1979	71,808	1,481	5,685	12,822	17,715	10,729	9,251	2,778	11,347	38,548	
1980	74,335	1,737	6,038	13,097	19,132	9,698	9,888	2,934	11,811	41,504	
1981	79,585	1,883	6,526	14,089	20,113	9,737	10,618	3,152	13,467	43,166	
1982	83,720	1,941	7,222	14,122	21,927	9,577	11,467	3,154	14,310	43,442	
1983	91,146	2,305	7,590	14,910	25,295	9,247	12,911	3,477	15,411	43,480	
1984 ²	92,739	2,340	7,400	15,192	26,388	9,282	13,855	3,673	14,609	45,053	
1985 ²	96,018	2,538	7,177	14,902	28,203	10,525	14,157	3,959	14,557	46,053	
1986 ²	101,905	2,804	7,043	14,976	29,969	11,569	15,713	4,236	15,595	47,556	
1987 ²	103,983	3,015	7,141	14,682	31,399	12,353	16,366	4,397	14,630	48,298	
1988	102,854	3,223	6,643	14,811	32,035	11,575	16,151	4,381	14,035	49,395	
1989	104,065	3,524	6,482	14,909	33,257	11,333	16,265	4,635	13,660	51,875	
1990	107,658	3,934	6,768	15,542	33,722	11,555	16,879	4,983	14,275	55,108	
1991	113,535	4,120	7,157	17,398	35,111	12,996	17,730	5,203	13,820	58,665	
1992	118,039	4,036	7,433	19,572	36,428	13,826	18,637	5,550	12,557	63,041	
1993	116,872	3,940	7,554	19,583	35,290	13,905	18,477	5,410	12,713	68,601	
1994	113,024	3,715	7,639	19,925	33,020	13,992	17,761	5,228	11,744	73,285	
1995	107,201	3,343	7,452	19,218	30,721	13,475	16,363	4,956	11,673	77,202	
1996	103,224	3,208	7,408	18,528	29,702	12,675	15,509	4,747	11,447	78,931	
1997	101,148	3,083	7,288	17,193	30,548	11,957	15,045	4,688	11,346	79,611	
1998	100,038	3,137	7,093	16,517	31,129	11,221	14,696	4,680	11,565	80,818	
1999	101,691	3,349	6,883	16,226	31,382	11,803	14,956	4,481	12,611	82,153	
2000	104,684	3,407	7,093	16,494	33,318	12,253	15,457	4,377	12,285	79,988	
2001	109,506	3,485	6,913	16,604	35,745	12,940	15,831	4,721	13,267	80,664	

¹ Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 3. Male graduate students in science, engineering, and health fields in all institutions,
by field: 1975-2001**

Year	Total, science and engi- neering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmos- pheric, & ocean sciences	Mathe- matical sciences	Computer sciences	Agricul- tural sciences	Biological sciences	Psychology	Social sciences	
1975	na	na	na	na	na	na	na	na	na	na	na
1976	na	na	na	na	na	na	na	na	na	na	na
1977	233,775	168,724	22,823	11,169	11,933	7,549	9,504	32,468	20,518	52,760	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	229,763	163,842	22,206	10,846	11,009	9,367	9,506	30,269	19,424	51,215	
1980	231,203	163,208	22,338	10,844	11,247	10,491	9,572	29,245	19,027	50,444	
1981	232,140	160,302	22,349	10,847	11,400	12,228	9,504	27,939	17,900	48,135	
1982	235,296	160,353	22,769	11,295	12,079	14,366	9,467	26,753	16,976	46,648	
1983	240,459	159,122	23,580	11,548	12,158	16,719	9,265	26,254	16,648	42,950	
1984 ²	242,110	159,670	23,902	11,628	12,275	18,653	9,063	26,204	16,180	41,765	
1985 ²	247,368	162,433	24,478	11,489	12,209	22,208	8,546	26,155	15,597	41,751	
1986 ²	253,605	164,073	25,395	11,108	12,470	23,497	8,482	26,214	15,377	41,530	
1987 ²	256,058	165,046	25,624	10,581	12,912	24,036	8,144	26,226	15,683	41,840	
1988	253,912	164,186	25,473	10,054	13,301	24,033	8,017	26,218	15,502	41,588	
1989	256,754	166,297	25,824	9,776	13,262	24,494	8,031	26,528	15,673	42,709	
1990	263,304	170,325	26,012	9,860	13,575	26,058	7,955	26,860	15,822	44,183	
1991	271,744	173,907	26,156	10,015	13,654	26,391	7,912	27,544	16,556	45,679	
1992	280,290	179,471	26,508	10,478	13,806	27,854	8,033	28,599	16,650	47,543	
1993	279,178	179,994	26,122	10,695	13,362	27,782	7,837	29,295	16,567	48,334	
1994	272,021	177,047	25,299	10,638	13,042	26,071	7,927	29,896	16,416	47,758	
1995	262,248	173,060	24,314	10,282	12,246	25,325	7,963	29,829	15,877	47,224	
1996	253,499	168,529	23,288	9,736	11,789	25,829	7,525	29,289	15,375	45,698	
1997	245,608	163,180	22,257	9,132	10,851	26,110	7,291	28,427	15,507	43,605	
1998	241,406	160,356	21,822	8,690	10,497	27,225	7,125	27,915	15,095	41,987	
1999	242,832	161,028	21,776	8,358	10,214	29,990	7,078	27,442	14,494	41,676	
2000	243,882	160,010	21,335	8,189	9,865	33,431	6,753	26,576	13,674	40,187	
2001	251,848	164,569	21,656	7,949	10,386	36,902	6,709	26,730	13,215	41,022	
Engineering											
Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering			
1975	na	na	na	na	na	na	na	na	na	na	na
1976	na	na	na	na	na	na	na	na	na	na	na
1977	65,051	1,485	4,893	11,507	16,696	9,683	8,449	2,401	9,937	11,149	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	65,921	1,432	5,060	11,503	16,782	9,473	8,782	2,489	10,400	11,076	
1980	67,995	1,663	5,358	11,732	18,149	8,343	9,354	2,629	10,767	11,753	
1981	71,838	1,816	5,747	12,515	18,837	8,194	9,987	2,758	11,984	11,418	
1982	74,943	1,831	6,319	12,373	20,376	7,958	10,748	2,729	12,609	11,002	
1983	81,337	2,182	6,572	13,051	23,227	7,729	12,106	3,025	13,445	10,469	
1984 ²	82,440	2,208	6,426	13,165	24,175	7,674	12,899	3,201	12,692	10,543	
1985 ²	84,935	2,375	6,170	12,755	25,768	8,743	13,146	3,352	12,626	10,848	
1986 ²	89,532	2,604	5,996	12,829	27,061	9,472	14,554	3,552	13,464	11,128	
1987 ²	91,012	2,791	5,979	12,579	28,301	10,085	15,070	3,659	12,548	11,883	
1988	89,726	2,996	5,564	12,517	28,757	9,449	14,749	3,618	12,076	11,478	
1989	90,457	3,281	5,445	12,474	29,742	9,180	14,867	3,820	11,648	11,971	
1990	92,979	3,645	5,615	12,853	30,007	9,367	15,437	4,085	11,970	12,368	
1991	97,837	3,793	5,897	14,296	31,260	10,594	16,219	4,208	11,570	13,153	
1992	100,819	3,688	6,036	15,918	32,151	11,118	16,939	4,476	10,493	13,932	
1993	99,184	3,583	6,050	15,725	30,977	11,260	16,703	4,373	10,513	15,298	
1994	94,974	3,357	6,110	15,714	28,918	11,135	15,938	4,145	9,657	16,334	
1995	89,188	2,992	5,885	14,986	26,633	10,652	14,686	3,882	9,472	17,057	
1996	84,970	2,856	5,757	14,228	25,580	9,906	13,873	3,670	9,100	18,161	
1997	82,428	2,712	5,568	13,029	26,110	9,301	13,266	3,571	8,871	18,889	
1998	81,050	2,755	5,366	12,415	26,382	8,769	12,934	3,550	8,879	19,613	
1999	81,804	2,926	5,150	12,069	26,409	9,144	13,168	3,397	9,541	19,928	
2000	83,872	2,938	5,212	12,208	27,967	9,519	13,604	3,336	9,088	19,150	
2001	87,279	3,000	5,084	12,125	29,715	10,132	13,892	3,548	9,783	19,464	

¹ Master's-granting institutions were not surveyed in 1978.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 4. Female graduate students in science, engineering, and health fields in all institutions,
by field: 1975-2001**

Year	Total, science and engi- neering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmos- pheric, & ocean sciences	Mathe- matical sciences	Computer sciences	Agricul- tural sciences	Biological sciences	Psychology	Social sciences	
1975	na	na	na	na	na	na	na	na	na	na	na
1976	na	na	na	na	na	na	na	na	na	na	na
1977	77,914	74,208	4,041	2,277	4,119	1,559	2,101	16,714	18,099	25,298	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	89,267	83,380	4,495	2,885	4,022	2,323	2,654	17,868	20,342	28,791	
1980	94,371	88,031	4,596	3,207	4,064	3,087	2,857	18,276	21,583	30,361	
1981	99,824	92,077	5,011	3,416	4,481	4,209	2,821	18,623	22,766	30,750	
1982	103,553	94,776	5,419	3,723	5,078	5,446	3,083	19,150	23,097	29,780	
1983	106,493	96,684	5,883	3,895	5,200	6,614	3,137	19,325	24,257	28,373	
1984 ²	107,507	97,208	6,159	3,872	5,168	6,873	3,136	19,478	24,751	27,771	
1985 ²	110,600	99,517	6,509	3,925	5,354	7,561	2,988	19,866	25,124	28,190	
1986 ²	114,359	101,986	6,864	3,945	5,479	7,852	2,945	20,432	25,864	28,605	
1987 ²	117,141	104,170	7,117	3,776	5,596	8,015	2,944	20,394	26,929	29,399	
1988	121,216	108,088	7,502	3,800	5,776	8,194	3,093	21,219	28,461	30,043	
1989	125,849	112,241	7,805	3,854	5,985	7,988	3,137	22,195	29,855	31,422	
1990	133,701	119,022	8,070	4,117	6,199	8,199	3,328	23,006	32,345	33,758	
1991	140,803	125,105	8,568	4,451	6,298	8,290	3,564	24,091	34,787	35,056	
1992	150,191	132,971	8,849	4,846	6,549	8,471	3,772	25,427	36,834	38,223	
1993	156,525	138,837	9,206	5,026	6,638	8,431	4,113	26,997	37,990	40,436	
1994	159,093	141,043	9,167	5,319	6,531	8,087	4,315	28,137	38,138	41,349	
1995	160,190	142,177	9,085	5,434	6,258	8,133	4,459	28,851	37,764	42,193	
1996	161,649	143,395	9,045	5,447	6,219	8,797	4,449	28,771	37,747	42,920	
1997	161,989	143,269	8,848	5,416	5,868	9,881	4,561	28,617	37,619	42,459	
1998	163,403	144,415	8,753	5,568	5,988	10,802	4,719	29,079	37,462	42,044	
1999	168,425	148,538	8,915	5,725	6,043	12,570	4,910	29,673	37,370	43,332	
2000	170,801	149,989	9,128	5,751	5,781	14,163	4,931	29,918	37,030	43,287	
2001	177,644	155,417	9,332	5,892	6,277	15,294	5,202	31,096	37,583	44,741	
Engineering											
Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering			
1975	na	na	na	na	na	na	na	na	na	na	na
1976	na	na	na	na	na	na	na	na	na	na	na
1977	3,706	33	380	828	710	755	273	184	543	22,536	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	5,887	49	625	1,319	933	1,256	469	289	947	27,472	
1980	6,340	74	680	1,365	983	1,355	534	305	1,044	29,751	
1981	7,747	67	779	1,574	1,276	1,543	631	394	1,483	31,748	
1982	8,777	110	903	1,749	1,551	1,619	719	425	1,701	32,440	
1983	9,809	123	1,018	1,859	2,068	1,518	805	452	1,966	33,011	
1984 ²	10,299	132	974	2,027	2,213	1,608	956	472	1,917	34,510	
1985 ²	11,083	163	1,007	2,147	2,435	1,782	1,011	607	1,931	35,205	
1986 ²	12,373	200	1,047	2,147	2,908	2,097	1,159	684	2,131	36,428	
1987 ²	12,971	224	1,162	2,103	3,098	2,268	1,296	738	2,082	36,415	
1988	13,128	227	1,079	2,294	3,278	2,126	1,402	763	1,959	37,917	
1989	13,608	243	1,037	2,435	3,515	2,153	1,398	815	2,012	39,904	
1990	14,679	289	1,153	2,689	3,715	2,188	1,442	898	2,305	42,740	
1991	15,698	327	1,260	3,102	3,851	2,402	1,511	995	2,250	45,512	
1992	17,220	348	1,397	3,654	4,277	2,708	1,698	1,074	2,064	49,109	
1993	17,688	357	1,504	3,858	4,313	2,645	1,774	1,037	2,200	53,303	
1994	18,050	358	1,529	4,211	4,102	2,857	1,823	1,083	2,087	56,951	
1995	18,013	351	1,567	4,232	4,088	2,823	1,677	1,074	2,201	60,145	
1996	18,254	352	1,651	4,300	4,122	2,769	1,636	1,077	2,347	60,770	
1997	18,720	371	1,720	4,164	4,438	2,656	1,779	1,117	2,475	60,722	
1998	18,988	382	1,727	4,102	4,747	2,452	1,762	1,130	2,686	61,205	
1999	19,887	423	1,733	4,157	4,973	2,659	1,788	1,084	3,070	62,225	
2000	20,812	469	1,881	4,286	5,351	2,734	1,853	1,041	3,197	60,838	
2001	22,227	485	1,829	4,479	6,030	2,808	1,939	1,173	3,484	61,200	

¹ Master's-granting institutions were not surveyed in 1978.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 5. Full-time graduate students in science, engineering, and health fields
in all institutions, by field: 1975-2001**

Year	Total, science and engi- neering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmos- pheric, & ocean sciences	Mathe- matical sciences	Computer sciences	Agricul- tural sciences	Biological sciences	Psychology	Social sciences	
1975	202,260	164,437	21,916	9,557	10,694	4,473	8,828	36,834	24,105	48,030	
1976	204,815	167,867	22,261	10,082	10,952	4,748	9,370	37,859	25,643	46,952	
1977	206,411	169,184	22,514	10,415	10,365	4,604	9,640	38,374	25,703	47,569	
1978 ¹	201,735	164,149	22,143	10,361	9,769	4,930	9,646	37,741	24,754	44,805	
1979	208,996	168,955	22,541	10,619	9,667	5,853	9,878	37,948	25,848	46,601	
1980	214,401	171,751	22,917	10,871	9,901	6,587	10,145	37,626	26,671	47,033	
1981	217,943	172,191	23,310	10,931	10,152	7,445	10,285	37,217	26,570	46,281	
1982	221,866	172,082	24,040	11,317	10,813	9,171	10,107	36,633	25,667	44,334	
1983	229,399	175,467	25,211	11,961	10,955	10,600	9,952	36,683	26,561	43,544	
1984 ²	230,946	175,755	25,854	11,732	11,309	11,436	9,884	37,045	25,969	42,526	
1985 ²	233,930	178,012	26,672	11,331	11,816	13,861	9,228	36,939	25,335	42,830	
1986 ²	242,724	182,527	27,770	11,241	12,388	15,020	9,310	37,721	26,255	42,822	
1987 ²	247,097	185,135	28,423	10,424	13,043	15,336	9,064	38,137	27,256	43,452	
1988	250,554	187,522	28,585	10,181	13,512	15,133	9,097	39,115	28,118	43,781	
1989	256,813	192,417	29,216	10,012	13,681	15,606	9,049	40,263	29,348	45,242	
1990	265,316	199,306	29,490	10,239	13,865	16,689	9,067	40,869	30,618	48,469	
1991	277,065	206,031	30,126	10,364	14,256	16,546	9,259	42,598	32,258	50,624	
1992	290,403	215,960	30,681	10,976	14,679	17,505	9,418	44,294	34,162	54,245	
1993	293,902	220,094	30,616	11,346	14,530	17,401	9,446	46,367	34,782	55,606	
1994	292,975	221,405	30,049	11,446	14,226	16,701	9,479	47,961	35,288	56,255	
1995	287,164	219,382	28,879	11,259	13,410	16,510	9,605	48,285	35,222	56,212	
1996	284,033	218,174	27,931	10,795	12,966	17,195	9,297	47,684	35,412	56,894	
1997	280,664	214,976	26,882	10,510	12,144	18,335	9,096	46,923	35,551	55,535	
1998	278,941	213,506	26,391	10,444	11,751	19,972	8,986	46,992	35,148	53,822	
1999	283,911	215,888	26,635	10,484	11,796	22,708	9,156	47,107	34,705	53,297	
2000	292,020	219,436	26,552	10,559	11,732	26,644	9,113	47,026	35,081	52,729	
2001	304,476	226,904	27,129	10,504	12,498	30,098	9,202	48,351	34,533	54,589	
Engineering											
Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering			
1975	37,823	1,245	3,576	7,363	8,278	4,152	4,931	1,808	6,470	17,388	
1976	36,948	1,165	3,757	7,025	8,147	3,578	4,919	1,879	6,478	18,597	
1977	37,227	1,187	3,944	7,094	8,528	3,343	4,883	1,976	6,272	20,327	
1978 ¹	37,586	1,140	4,019	7,335	8,509	3,249	4,950	1,995	6,389	21,295	
1979	40,041	1,152	4,292	7,623	9,039	3,743	5,428	2,157	6,607	22,764	
1980	42,650	1,327	4,513	7,958	9,963	3,736	5,841	2,274	7,038	24,015	
1981	45,752	1,483	5,016	8,799	10,450	3,603	6,422	2,478	7,501	24,106	
1982	49,784	1,522	5,637	9,381	11,533	3,807	7,267	2,505	8,132	22,891	
1983	53,932	1,840	5,893	9,804	13,265	3,288	8,330	2,731	8,781	22,618	
1984 ²	55,191	1,854	5,758	10,086	13,925	3,393	8,698	2,888	8,589	22,976	
1985 ²	55,918	1,994	5,568	9,749	14,799	3,456	8,875	3,109	8,368	23,357	
1986 ²	60,197	2,154	5,625	9,971	16,290	3,810	9,789	3,398	9,160	23,444	
1987 ²	61,962	2,372	5,704	9,628	17,101	4,165	10,230	3,467	9,295	23,959	
1988	63,032	2,533	5,384	9,946	17,706	4,313	10,416	3,509	9,225	24,573	
1989	64,396	2,772	5,303	9,964	18,466	4,684	10,492	3,760	8,955	25,835	
1990	66,010	3,010	5,476	10,128	18,675	4,806	10,867	3,969	9,079	27,466	
1991	71,034	3,325	5,818	11,328	19,874	5,639	11,687	4,094	9,269	29,945	
1992	74,443	3,306	5,982	12,454	20,977	6,113	12,383	4,309	8,919	32,152	
1993	73,808	3,262	6,079	12,458	20,343	5,950	12,395	4,294	9,027	35,742	
1994	71,570	3,000	6,136	12,641	19,385	5,960	11,875	4,143	8,430	39,113	
1995	67,782	2,693	5,985	12,248	18,167	5,389	11,128	3,912	8,260	42,119	
1996	65,859	2,576	5,939	11,791	17,967	5,166	10,690	3,724	8,006	44,503	
1997	65,688	2,529	5,821	11,406	18,854	5,116	10,432	3,694	7,836	46,625	
1998	65,435	2,565	5,630	11,154	19,470	4,894	10,073	3,736	7,913	48,448	
1999	68,023	2,645	5,593	11,237	20,219	5,500	10,331	3,563	8,935	50,510	
2000	72,584	2,759	5,865	11,765	22,821	6,089	10,929	3,601	8,755	50,059	
2001	77,572	2,855	5,829	12,099	25,112	6,534	11,436	3,977	9,730	50,639	

¹ Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 6. Male full-time graduate students in science, engineering, and health fields in all institutions,
by field: 1975-2001**

Year	Total, science and engi- neering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmos- pheric, & ocean sciences	Mathe- matical sciences	Computer sciences	Agricul- tural sciences	Biological sciences	Psychology	Social sciences	
1975	na	na	na	na	na	na	na	na	na	na	na
1976	156,134	121,218	19,212	8,450	8,476	4,006	7,886	26,148	14,591	32,449	
1977	154,365	119,401	19,300	8,634	8,083	3,845	7,838	25,833	13,949	31,919	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	151,945	115,345	19,048	8,400	7,497	4,803	7,682	24,444	13,277	30,194	
1980	153,098	114,303	19,214	8,388	7,595	5,184	7,756	23,764	12,779	29,623	
1981	154,032	112,894	19,307	8,360	7,612	5,718	7,858	23,146	12,007	28,886	
1982	156,368	111,833	19,643	8,530	8,022	6,860	7,565	22,108	11,223	27,882	
1983	161,504	113,193	20,374	8,992	8,037	7,961	7,426	21,928	11,361	27,114	
1984 ²	162,366	113,224	20,756	8,875	8,328	8,693	7,306	21,979	10,714	26,573	
1985 ²	164,162	114,528	21,243	8,498	8,614	10,806	6,834	21,762	10,232	26,539	
1986 ²	169,811	116,592	22,029	8,329	8,984	11,703	6,932	21,934	10,263	26,418	
1987 ²	172,075	117,404	22,393	7,750	9,481	12,005	6,694	22,036	10,422	26,623	
1988	172,278	116,869	22,214	7,438	9,794	11,795	6,619	22,343	10,199	26,467	
1989	175,045	118,793	22,552	7,263	9,746	12,355	6,544	22,678	10,467	27,188	
1990	178,642	121,337	22,668	7,313	9,821	13,218	6,428	22,739	10,642	28,508	
1991	185,017	123,661	22,852	7,190	10,035	13,057	6,397	23,427	10,957	29,746	
1992	191,721	127,939	23,176	7,585	10,250	13,949	6,421	24,164	11,171	31,223	
1993	190,785	128,174	22,891	7,799	10,096	13,811	6,261	24,846	11,189	31,281	
1994	186,622	126,630	22,281	7,659	9,810	13,152	6,151	25,444	11,131	31,002	
1995	179,769	123,489	21,222	7,379	9,213	12,860	6,142	25,256	10,903	30,514	
1996	174,688	120,656	20,395	6,941	8,797	13,102	5,839	24,686	10,775	30,121	
1997	170,166	116,986	19,454	6,650	8,171	13,536	5,584	23,969	10,833	28,789	
1998	167,319	114,711	19,034	6,374	7,797	14,520	5,385	23,609	10,509	27,483	
1999	169,061	114,561	19,065	6,171	7,662	16,327	5,362	23,200	10,082	26,692	
2000	173,256	115,554	18,791	6,121	7,661	19,158	5,168	22,740	9,895	26,020	
2001	180,129	118,748	19,047	5,936	8,110	21,777	5,082	22,862	9,321	26,613	
Engineering											
Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering			
1975	na	na	na	na	na	na	na	na	na	na	na
1976	34,916	1,142	3,516	6,512	7,850	3,199	4,797	1,769	6,131	7,536	
1977	34,964	1,160	3,660	6,553	8,146	2,967	4,742	1,833	5,903	7,520	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	36,600	1,116	3,852	6,729	8,585	3,164	5,170	1,943	6,041	7,630	
1980	38,795	1,273	4,047	7,059	9,405	3,071	5,525	2,041	6,374	7,761	
1981	41,138	1,432	4,482	7,673	9,739	2,915	6,075	2,187	6,635	7,444	
1982	44,535	1,449	4,963	8,140	10,715	3,042	6,834	2,192	7,200	6,905	
1983	48,311	1,760	5,122	8,509	12,302	2,673	7,847	2,403	7,695	6,711	
1984 ²	49,142	1,768	5,024	8,648	12,775	2,769	8,137	2,530	7,491	6,708	
1985 ²	49,634	1,868	4,811	8,257	13,591	2,821	8,316	2,666	7,304	6,783	
1986 ²	53,219	2,006	4,829	8,484	14,823	3,076	9,162	2,868	7,971	6,765	
1987 ²	54,671	2,205	4,822	8,230	15,552	3,430	9,498	2,889	8,045	7,355	
1988	55,409	2,365	4,588	8,381	16,024	3,572	9,581	2,923	7,975	7,277	
1989	56,252	2,592	4,499	8,315	16,644	3,772	9,637	3,116	7,677	7,740	
1990	57,305	2,811	4,573	8,347	16,719	3,893	10,019	3,273	7,670	8,077	
1991	61,356	3,071	4,830	9,309	17,717	4,591	10,745	3,345	7,748	8,522	
1992	63,782	3,043	4,882	10,126	18,557	4,931	11,297	3,497	7,449	9,097	
1993	62,611	2,971	4,908	9,934	17,906	4,770	11,210	3,482	7,430	9,993	
1994	59,992	2,722	4,940	9,855	16,996	4,651	10,658	3,289	6,881	10,803	
1995	56,280	2,417	4,756	9,431	15,727	4,229	9,993	3,082	6,645	11,431	
1996	54,032	2,293	4,615	8,937	15,427	4,069	9,500	2,893	6,298	12,428	
1997	53,180	2,226	4,451	8,495	16,043	4,009	9,143	2,819	5,994	13,226	
1998	52,608	2,251	4,233	8,213	16,416	3,810	8,840	2,829	6,016	13,674	
1999	54,500	2,320	4,197	8,192	16,962	4,364	9,069	2,715	6,681	13,875	
2000	57,702	2,385	4,316	8,457	19,067	4,746	9,576	2,751	6,404	13,500	
2001	61,381	2,469	4,289	8,680	20,771	5,105	9,998	2,988	7,081	13,658	

¹ Master's-granting institutions were not surveyed in 1978.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 7. Female full-time graduate students in science, engineering, and health fields in all institutions, by field: 1975-2001

Year	Total, science and engineering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975	na	na	na	na	na	na	na	na	na	na	na
1976	48,681	46,649	3,049	1,632	2,476	742	1,484	11,711	11,052	14,503	
1977	52,046	49,783	3,214	1,781	2,282	759	1,802	12,541	11,754	15,650	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	57,051	53,610	3,493	2,219	2,170	1,050	2,196	13,504	12,571	16,407	
1980	61,303	57,448	3,703	2,483	2,306	1,403	2,389	13,862	13,892	17,410	
1981	63,911	59,297	4,003	2,571	2,540	1,727	2,427	14,071	14,563	17,395	
1982	65,498	60,249	4,397	2,787	2,791	2,311	2,542	14,525	14,444	16,452	
1983	67,895	62,274	4,837	2,969	2,918	2,639	2,526	14,755	15,200	16,430	
1984 ²	68,580	62,531	5,098	2,857	2,981	2,743	2,578	15,066	15,255	15,953	
1985 ²	69,768	63,484	5,429	2,833	3,202	3,055	2,394	15,177	15,103	16,291	
1986 ²	72,913	65,935	5,741	2,912	3,404	3,317	2,378	15,787	15,992	16,404	
1987 ²	75,022	67,731	6,030	2,674	3,562	3,331	2,370	16,101	16,834	16,829	
1988	78,276	70,653	6,371	2,743	3,718	3,338	2,478	16,772	17,919	17,314	
1989	81,768	73,624	6,664	2,749	3,935	3,251	2,505	17,585	18,881	18,054	
1990	86,674	77,969	6,822	2,926	4,044	3,471	2,639	18,130	19,976	19,961	
1991	92,048	82,370	7,274	3,174	4,221	3,489	2,862	19,171	21,301	20,878	
1992	98,682	88,021	7,505	3,391	4,429	3,556	2,997	20,130	22,991	23,022	
1993	103,117	91,920	7,725	3,547	4,434	3,590	3,185	21,521	23,593	24,325	
1994	106,353	94,775	7,768	3,787	4,416	3,549	3,328	22,517	24,157	25,253	
1995	107,395	95,893	7,657	3,880	4,197	3,650	3,463	23,029	24,319	25,698	
1996	109,345	97,518	7,536	3,854	4,169	4,093	3,458	22,998	24,637	26,773	
1997	110,498	97,990	7,428	3,860	3,973	4,799	3,512	22,954	24,718	26,746	
1998	111,622	98,795	7,357	4,070	3,954	5,452	3,601	23,383	24,639	26,339	
1999	114,850	101,327	7,570	4,313	4,134	6,381	3,794	23,907	24,623	26,605	
2000	118,764	103,882	7,761	4,438	4,071	7,486	3,945	24,286	25,186	26,709	
2001	124,347	108,156	8,082	4,568	4,388	8,321	4,120	25,489	25,212	27,976	
Engineering											
Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering			
1975	na	na	na	na	na	na	na	na	na	na	
1976	2,032	23	241	513	297	379	122	110	347	11,061	
1977	2,263	27	284	541	382	376	141	143	369	12,807	
1978 ¹	na	na	na	na	na	na	na	na	na	na	
1979	3,441	36	440	894	454	579	258	214	566	15,134	
1980	3,855	54	466	899	558	665	316	233	664	16,254	
1981	4,614	51	534	1,126	711	688	347	291	866	16,662	
1982	5,249	73	674	1,241	818	765	433	313	932	15,986	
1983	5,621	80	771	1,295	963	615	483	328	1,086	15,907	
1984 ²	6,049	86	734	1,438	1,150	624	561	358	1,098	16,268	
1985 ²	6,284	126	757	1,492	1,208	635	559	443	1,064	16,574	
1986 ²	6,978	148	796	1,487	1,467	734	627	530	1,189	16,679	
1987 ²	7,291	167	882	1,398	1,549	735	732	578	1,250	16,604	
1988	7,623	168	796	1,565	1,682	741	835	586	1,250	17,296	
1989	8,144	180	804	1,649	1,822	912	855	644	1,278	18,095	
1990	8,705	199	903	1,781	1,956	913	848	696	1,409	19,389	
1991	9,678	254	988	2,019	2,157	1,048	942	749	1,521	21,423	
1992	10,661	263	1,100	2,328	2,420	1,182	1,086	812	1,470	23,055	
1993	11,197	291	1,171	2,524	2,437	1,180	1,185	812	1,597	25,749	
1994	11,578	278	1,196	2,786	2,389	1,309	1,217	854	1,549	28,310	
1995	11,502	276	1,229	2,817	2,440	1,160	1,135	830	1,615	30,688	
1996	11,827	283	1,324	2,854	2,540	1,097	1,190	831	1,708	32,075	
1997	12,508	303	1,370	2,911	2,811	1,107	1,289	875	1,842	33,399	
1998	12,827	314	1,397	2,941	3,054	1,084	1,233	907	1,897	34,774	
1999	13,523	325	1,396	3,045	3,257	1,136	1,262	848	2,254	36,635	
2000	14,882	374	1,549	3,308	3,754	1,343	1,353	850	2,351	36,559	
2001	16,191	386	1,540	3,419	4,341	1,429	1,438	989	2,649	36,981	

¹ Master's-granting institutions were not surveyed in 1978.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 8. Full-time graduate students with U.S. citizenship or permanent resident status in science, engineering, and health fields in all institutions, by field: 1975-2001

Year	Total, science and engineering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975 ¹	na	na	na	na	na	na	na	na	na	na	na
1976 ¹	na	na	na	na	na	na	na	na	na	na	na
1977 ¹	na	na	na	na	na	na	na	na	na	na	na
1978 ¹	na	na	na	na	na	na	na	na	na	na	na
1979 ¹	na	na	na	na	na	na	na	na	na	na	na
1980 ²	166,142	141,389	17,186	9,484	6,647	4,521	7,855	33,121	25,461	37,114	
1981 ²	165,614	139,549	17,052	9,436	6,511	4,887	7,852	32,442	25,566	35,803	
1982 ²	166,697	138,201	17,586	9,691	6,926	5,981	7,653	31,674	24,588	34,102	
1983 ²	169,884	138,709	18,016	10,292	6,714	6,677	7,426	31,240	25,468	32,876	
1984 ² ³ ..	169,859	137,892	18,294	10,162	6,772	6,982	7,400	31,317	24,924	32,041	
1985 ² ³ ..	168,231	136,394	18,189	9,666	6,995	8,327	6,841	30,665	24,179	31,532	
1986 ² ³ ..	170,377	137,127	18,272	9,374	7,243	8,912	6,723	30,606	25,085	30,912	
1987 ² ³ ..	171,087	137,146	18,395	8,485	7,549	8,863	6,416	30,183	26,044	31,211	
1988 ²	170,141	136,616	18,141	8,029	7,738	8,415	6,429	30,158	26,802	30,904	
1989 ²	173,336	139,249	18,116	7,708	7,697	8,616	6,375	30,291	28,021	32,425	
1990 ²	177,740	143,248	17,841	7,808	7,961	8,742	6,187	30,229	29,133	35,347	
1991 ²	185,403	148,324	18,276	7,793	8,380	8,455	6,388	31,025	30,634	37,373	
1992	197,394	157,505	18,767	8,299	8,939	8,881	6,572	32,491	32,548	41,008	
1993	204,402	163,192	19,236	8,661	9,056	9,019	6,654	34,452	33,196	42,918	
1994	206,805	165,653	19,136	8,586	8,876	8,757	6,685	36,199	33,430	43,984	
1995	204,107	165,515	18,403	8,673	8,291	8,627	6,869	37,167	33,574	43,911	
1996	200,669	164,193	17,632	8,399	7,885	8,400	6,740	37,197	33,789	44,151	
1997	195,969	161,092	16,805	8,289	7,262	8,578	6,745	36,704	33,881	42,828	
1998	191,943	158,557	16,468	8,258	7,061	9,042	6,760	36,539	33,410	41,019	
1999	190,117	157,776	16,300	8,268	6,588	9,960	7,011	36,871	32,968	39,810	
2000	186,982	155,091	15,732	8,156	6,350	9,778	7,050	36,178	33,225	38,622	
2001	189,706	157,148	15,879	8,053	6,700	10,374	6,973	36,912	32,520	39,737	
Engineering											
Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering			
1975 ¹	na	na	na	na	na	na	na	na	na	na	na
1976 ¹	na	na	na	na	na	na	na	na	na	na	na
1977 ¹	na	na	na	na	na	na	na	na	na	na	na
1978 ¹	na	na	na	na	na	na	na	na	na	na	na
1979 ¹	na	na	na	na	na	na	na	na	na	na	na
1980 ²	24,753	759	2,517	4,670	5,666	2,297	3,211	1,165	4,468	21,972	
1981 ²	26,065	882	2,808	5,162	5,665	2,029	3,363	1,361	4,795	21,960	
1982 ²	28,496	945	3,290	5,428	6,421	2,190	3,767	1,319	5,136	20,593	
1983 ²	31,175	1,088	3,650	5,544	7,398	1,933	4,327	1,553	5,682	20,207	
1984 ² ³ ..	31,967	1,115	3,623	5,687	7,890	1,934	4,591	1,679	5,448	20,618	
1985 ² ³ ..	31,837	1,258	3,350	5,282	8,137	1,874	4,858	1,821	5,257	20,812	
1986 ² ³ ..	33,250	1,343	3,432	5,303	8,572	2,056	5,218	1,882	5,444	20,722	
1987 ² ³ ..	33,941	1,559	3,371	5,090	9,002	2,152	5,559	1,860	5,348	21,175	
1988 ²	33,525	1,502	2,971	5,208	9,295	2,239	5,299	1,848	5,163	21,515	
1989 ²	34,087	1,757	2,686	5,097	9,723	2,438	5,632	1,923	4,831	22,542	
1990 ²	34,492	1,870	2,696	5,375	9,652	2,389	5,781	2,015	4,714	23,892	
1991 ²	37,079	2,201	2,815	6,140	9,947	2,780	6,120	2,100	4,976	26,159	
1992	39,889	2,246	2,968	7,003	10,548	3,088	6,803	2,278	4,955	28,442	
1993	41,210	2,178	3,128	7,440	10,394	3,236	7,228	2,298	5,308	31,889	
1994	41,152	1,862	3,381	7,848	10,441	3,211	7,090	2,364	4,955	35,460	
1995	38,592	1,611	3,314	7,652	9,365	2,885	6,548	2,190	5,027	38,465	
1996	36,476	1,417	3,382	7,509	8,688	2,528	6,024	1,988	4,940	40,491	
1997	34,877	1,327	3,281	7,082	8,475	2,443	5,591	1,922	4,756	42,613	
1998	33,386	1,268	3,059	6,871	8,089	2,255	5,212	1,894	4,738	44,425	
1999	32,341	1,278	2,826	6,492	7,478	2,447	5,007	1,712	5,101	46,149	
2000	31,891	1,358	2,813	6,348	7,558	2,421	4,875	1,645	4,873	45,544	
2001	32,558	1,360	2,712	6,320	8,133	2,173	4,923	1,776	5,161	45,582	

¹ Distribution by citizenship data were not requested before 1980.

² For 1991 and earlier years, these figures do not include permanent residents.

³ These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 9. Full-time graduate students without U.S. citizenship or permanent resident status in science, engineering, and health fields in all institutions, by field: 1975-2001

Year	Total, science and engineering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975 ¹	na	na	na	na	na	na	na	na	na	na	na
1976 ¹	na	na	na	na	na	na	na	na	na	na	na
1977 ¹	na	na	na	na	na	na	na	na	na	na	na
1978 ¹	na	na	na	na	na	na	na	na	na	na	na
1979 ¹	na	na	na	na	na	na	na	na	na	na	na
1980 ²	48,259	30,362	5,731	1,387	3,254	2,066	2,290	4,505	1,210	9,919	
1981 ²	52,329	32,642	6,258	1,495	3,641	2,558	2,433	4,775	1,004	10,478	
1982 ²	55,169	33,881	6,454	1,626	3,887	3,190	2,454	4,959	1,079	10,232	
1983 ²	59,515	36,758	7,195	1,669	4,241	3,923	2,526	5,443	1,093	10,668	
1984 ² ³ ..	61,087	37,863	7,560	1,570	4,537	4,454	2,484	5,728	1,045	10,485	
1985 ² ³ ..	65,699	41,618	8,483	1,665	4,821	5,534	2,387	6,274	1,156	11,298	
1986 ² ³ ..	72,347	45,400	9,498	1,867	5,145	6,108	2,587	7,115	1,170	11,910	
1987 ² ³ ..	76,010	47,989	10,028	1,939	5,494	6,473	2,648	7,954	1,212	12,241	
1988 ²	80,413	50,906	10,444	2,152	5,774	6,718	2,668	8,957	1,316	12,877	
1989 ²	83,477	53,168	11,100	2,304	5,984	6,990	2,674	9,972	1,327	12,817	
1990 ²	87,576	56,058	11,649	2,431	5,904	7,947	2,880	10,640	1,485	13,122	
1991 ²	91,662	57,707	11,850	2,571	5,876	8,091	2,871	11,573	1,624	13,251	
1992	93,009	58,455	11,914	2,677	5,740	8,624	2,846	11,803	1,614	13,237	
1993	89,500	56,902	11,380	2,685	5,474	8,382	2,792	11,915	1,586	12,688	
1994	86,170	55,752	10,913	2,860	5,350	7,944	2,794	11,762	1,858	12,271	
1995	83,057	53,867	10,476	2,586	5,119	7,883	2,736	11,118	1,648	12,301	
1996	83,364	53,981	10,299	2,396	5,081	8,795	2,557	10,487	1,623	12,743	
1997	84,695	53,884	10,077	2,221	4,882	9,757	2,351	10,219	1,670	12,707	
1998	86,998	54,949	9,923	2,186	4,690	10,930	2,226	10,453	1,738	12,803	
1999	93,794	58,112	10,335	2,216	5,208	12,748	2,145	10,236	1,737	13,487	
2000	105,038	64,345	10,820	2,403	5,382	16,866	2,063	10,848	1,856	14,107	
2001	114,770	69,756	11,250	2,451	5,798	19,724	2,229	11,439	2,013	14,852	
Engineering											
Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering			
1975 ¹	na	na	na	na	na	na	na	na	na	na	na
1976 ¹	na	na	na	na	na	na	na	na	na	na	na
1977 ¹	na	na	na	na	na	na	na	na	na	na	na
1978 ¹	na	na	na	na	na	na	na	na	na	na	na
1979 ¹	na	na	na	na	na	na	na	na	na	na	na
1980 ²	17,897	568	1,996	3,288	4,297	1,439	2,630	1,109	2,570	2,043	
1981 ²	19,687	601	2,208	3,637	4,785	1,574	3,059	1,117	2,706	2,146	
1982 ²	21,288	577	2,347	3,953	5,112	1,617	3,500	1,186	2,996	2,298	
1983 ²	22,757	752	2,243	4,260	5,867	1,355	4,003	1,178	3,099	2,411	
1984 ² ³ ..	23,224	739	2,135	4,399	6,035	1,459	4,107	1,209	3,141	2,358	
1985 ² ³ ..	24,081	736	2,218	4,467	6,662	1,582	4,017	1,288	3,111	2,545	
1986 ² ³ ..	26,947	811	2,193	4,668	7,718	1,754	4,571	1,516	3,716	2,722	
1987 ² ³ ..	28,021	813	2,333	4,538	8,099	2,013	4,671	1,607	3,947	2,784	
1988 ²	29,507	1,031	2,413	4,738	8,411	2,074	5,117	1,661	4,062	3,058	
1989 ²	30,309	1,015	2,617	4,867	8,743	2,246	4,860	1,837	4,124	3,293	
1990 ²	31,518	1,140	2,780	4,753	9,023	2,417	5,086	1,954	4,365	3,574	
1991 ²	33,955	1,124	3,003	5,188	9,927	2,859	5,567	1,994	4,293	3,786	
1992	34,554	1,060	3,014	5,451	10,429	3,025	5,580	2,031	3,964	3,710	
1993	32,598	1,084	2,951	5,018	9,949	2,714	5,167	1,996	3,719	3,853	
1994	30,418	1,138	2,755	4,793	8,944	2,749	4,785	1,779	3,475	3,653	
1995	29,190	1,082	2,671	4,596	8,802	2,504	4,580	1,722	3,233	3,654	
1996	29,383	1,159	2,557	4,282	9,279	2,638	4,666	1,736	3,066	4,012	
1997	30,811	1,202	2,540	4,324	10,379	2,673	4,841	1,772	3,080	4,012	
1998	32,049	1,297	2,571	4,283	11,381	2,639	4,861	1,842	3,175	4,023	
1999	35,682	1,367	2,767	4,745	12,741	3,053	5,324	1,851	3,834	4,361	
2000	40,693	1,401	3,052	5,417	15,263	3,668	6,054	1,956	3,882	4,515	
2001	45,014	1,495	3,117	5,779	16,979	4,361	6,513	2,201	4,569	5,057	

¹ Distribution by citizenship data were not requested before 1980.

² For 1991 and earlier years, these figures include permanent residents and students with temporary visas. Beginning in 1992, these figures include only students with temporary visas.

³ These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-87. See "Technical Notes" for further information.

KEY: na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 10. Graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	504,399	499,640	494,079	487,208	485,627	493,410	494,671	510,156
Total, science and engineering fields	431,114	422,438	415,148	407,597	404,809	411,257	414,683	429,492
Sciences, total	318,090	315,237	311,924	306,449	304,771	309,566	309,999	319,986
Physical sciences, total	34,466	33,399	32,333	31,105	30,575	30,691	30,463	30,988
Astronomy	973	912	874	778	820	832	888	916
Chemistry	19,803	19,570	19,334	18,774	18,482	18,416	18,188	18,300
Physics	13,162	12,425	11,728	11,147	10,809	10,869	10,836	11,264
Physical sciences, n.e.c.	528	492	397	406	464	574	551	508
Earth, atmos., & ocean sci., total	15,957	15,716	15,183	14,548	14,258	14,083	13,940	13,841
Atmospheric sciences	1,109	1,072	1,086	1,092	965	913	963	924
Geosciences	7,713	7,582	7,304	6,959	6,687	6,637	6,595	6,544
Oceanography	2,870	2,723	2,615	2,479	2,562	2,624	2,668	2,585
Earth, atmos., & ocean sci., n.e.c.	4,265	4,339	4,178	4,018	4,044	3,909	3,714	3,788
Mathematical sciences, total	19,573	18,504	18,008	16,719	16,485	16,257	15,646	16,663
Mathematics & applied mathematics	16,457	15,386	14,948	14,027	13,827	13,521	12,819	13,594
Statistics	3,116	3,118	3,060	2,692	2,658	2,736	2,827	3,069
Computer sciences	34,158	33,458	34,626	35,991	38,027	42,560	47,594	52,196
Agricultural sciences	12,242	12,422	11,974	11,852	11,844	11,988	11,684	11,911
Biological sciences, total	58,033	58,680	58,060	57,044	56,994	57,115	56,494	57,826
Anatomy	1,018	982	1,019	1,003	922	886	924	867
Biochemistry	5,615	5,562	5,275	5,102	5,148	5,101	4,963	4,917
Biology	14,208	14,280	14,611	14,646	14,277	13,989	13,410	13,355
Biometry/epidemiology	2,710	2,812	3,001	2,900	3,511	3,529	3,471	3,629
Biophysics	794	845	833	748	737	710	745	893
Botany	2,748	2,609	2,504	2,402	2,328	2,261	2,176	2,182
Cell biology	3,829	3,994	4,022	4,111	4,206	4,465	4,647	4,768
Ecology	1,566	1,680	1,615	1,619	1,655	1,687	1,744	1,848
Entomology/parasitology	1,263	1,241	1,234	1,161	1,168	1,145	1,104	1,170
Genetics	1,699	1,700	1,729	1,760	1,705	1,767	1,705	1,833
Microbio., immunology, & virology	5,094	5,026	4,912	4,805	4,773	4,815	4,815	4,798
Nutrition	4,791	5,071	4,918	4,604	4,486	4,508	4,430	4,429
Pathology	1,707	1,670	1,656	1,674	1,580	1,580	1,529	1,649
Pharmacology	2,839	2,710	2,663	2,597	2,730	2,757	2,959	3,052
Physiology	2,378	2,540	2,377	2,298	2,151	2,083	2,007	1,967
Zoology	2,028	2,006	1,852	1,669	1,622	1,558	1,481	1,448
Biosciences, n.e.c.	3,746	3,952	3,839	3,945	3,995	4,274	4,384	5,021
Psychology, total	54,554	53,641	53,122	53,126	52,557	51,864	50,704	50,798
Psychology, general	18,356	17,636	16,832	17,246	17,095	16,235	15,725	16,022
Clinical psychology	12,684	12,519	12,787	13,098	12,733	12,798	12,488	12,473
Psychology, n.e.c.	23,514	23,486	23,503	22,782	22,729	22,831	22,491	22,303
Social sciences, total	89,107	89,417	88,618	86,064	84,031	85,008	83,474	85,763
Agricultural economics	2,289	2,338	2,117	2,043	1,995	2,014	2,079	2,161
Anthropology (cultural & social)	7,665	7,693	7,773	7,560	7,577	7,633	7,633	7,491
Economics (except agricultural)	12,913	12,673	12,080	11,097	10,701	10,562	10,778	11,340
Geography	4,502	4,371	4,331	4,287	4,326	4,250	4,044	4,276
History and philosophy of science	387	401	409	443	508	557	532	571
Linguistics	3,279	3,194	3,156	3,068	2,935	2,799	2,674	2,744
Political science	34,317	34,298	33,252	32,083	30,828	31,381	31,179	31,850
Sociology	9,498	9,564	9,425	9,413	9,058	8,966	8,689	8,775
Sociology/anthropology	987	941	923	948	857	741	745	808
Social sciences, n.e.c.	13,270	13,944	15,152	15,122	15,246	16,105	15,121	15,747
Engineering, total	113,024	107,201	103,224	101,148	100,038	101,691	104,684	109,506
Aerospace engineering	3,715	3,343	3,208	3,083	3,137	3,349	3,407	3,485
Agricultural engineering	1,061	1,037	1,012	941	925	934	899	907
Biomedical engineering	2,750	2,732	2,732	2,847	2,905	3,121	3,241	3,593
Chemical engineering	7,639	7,452	7,408	7,288	7,093	6,883	7,093	6,913
Civil engineering	19,925	19,218	18,528	17,193	16,517	16,226	16,494	16,604
Electrical engineering	33,020	30,721	29,702	30,548	31,129	31,382	33,318	35,745
Engineering science	2,089	1,955	1,751	1,647	1,701	1,627	1,632	1,798
Industrial/manufacturing eng.	13,992	13,475	12,675	11,957	11,221	11,803	12,253	12,940
Mechanical engineering	17,761	16,363	15,509	15,045	14,696	14,956	15,457	15,831
Metallurgical/materials eng.	5,228	4,956	4,747	4,688	4,680	4,481	4,377	4,721
Mining engineering	424	373	371	348	304	328	287	240
Nuclear engineering	1,246	1,154	980	868	821	830	792	801
Petroleum engineering	624	610	562	561	571	642	627	680
Engineering, n.e.c.	3,550	3,812	4,039	4,134	4,338	5,129	4,807	5,248

See explanatory information, if any, and SOURCE at end of table.

**Table 10. Graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	73,285	77,202	78,931	79,611	80,818	82,153	79,988	80,664
Medical fields, total	15,065	15,566	15,396	15,503	16,690	17,355	16,533	17,518
Anesthesiology	729	749	754	840	907	880	873	891
Cardiology	14	19	18	33	36	63	53	50
Oncology/cancer research	208	189	185	198	209	250	237	261
Endocrinology	63	53	46	43	58	67	57	53
Gastroenterology	0	0	0	3	6	7	14	7
Hematology	2	1	3	3	1	5	6	6
Neurology	1,472	1,571	1,653	1,717	1,825	1,907	1,982	2,136
Obstetrics and gynecology	4	6	4	18	13	16	16	28
Ophthalmology	32	30	33	33	38	49	58	46
Otorhinolaryngology	2	0	0	2	0	3	9	4
Pediatrics	261	238	275	342	328	316	403	380
Preventive medicine/community health	10,480	10,886	10,598	10,460	11,519	11,990	10,870	11,172
Psychiatry	225	249	218	228	136	119	179	206
Pulmonary disease	0	0	0	0	0	6	7	8
Radiology	320	314	285	267	249	229	230	262
Surgery	119	174	167	171	122	122	147	130
Clinical medicine, n.e.c.	1,134	1,087	1,157	1,145	1,243	1,326	1,392	1,878
Other health fields, total	58,220	61,636	63,535	64,108	64,128	64,798	63,455	63,146
Dental sciences	1,298	1,338	1,388	1,491	1,518	1,467	1,430	1,494
Nursing	26,997	28,405	27,388	26,861	25,591	25,074	23,341	23,609
Pharmaceutical sciences	2,887	2,808	2,846	2,710	2,882	3,422	3,605	3,908
Speech pathology/audiology	11,356	11,982	12,857	13,212	13,198	13,600	13,655	13,193
Veterinary sciences	922	975	997	1,224	1,288	1,314	1,367	1,476
Health related, n.e.c.	14,760	16,128	18,059	18,610	19,651	19,921	20,057	19,466

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 11. Male graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	288,355	279,305	271,660	264,497	261,019	262,760	263,032	271,312
Total, science and engineering fields	272,021	262,248	253,499	245,608	241,406	242,832	243,882	251,848
Sciences, total	177,047	173,060	168,529	163,180	160,356	161,028	160,010	164,569
Physical sciences, total	25,299	24,314	23,288	22,257	21,822	21,776	21,335	21,656
Astronomy	750	689	647	570	590	607	621	651
Chemistry	12,958	12,742	12,495	12,052	11,918	11,799	11,415	11,452
Physics	11,254	10,590	9,919	9,403	9,029	8,993	8,930	9,219
Physical sciences, n.e.c.	337	293	227	232	285	377	369	334
Earth, atmos., & ocean sci., total	10,638	10,282	9,736	9,132	8,690	8,358	8,189	7,949
Atmospheric sciences	867	835	852	829	731	671	695	626
Geosciences	5,490	5,299	4,984	4,663	4,372	4,237	4,142	4,061
Oceanography	1,755	1,616	1,545	1,424	1,400	1,402	1,401	1,330
Earth, atmos., & ocean sci., n.e.c.	2,526	2,532	2,355	2,216	2,187	2,048	1,951	1,932
Mathematical sciences, total	13,042	12,246	11,789	10,851	10,497	10,214	9,865	10,386
Mathematics & applied mathematics	11,055	10,317	9,962	9,244	8,932	8,659	8,310	8,766
Statistics	1,987	1,929	1,827	1,607	1,565	1,555	1,555	1,620
Computer sciences	26,071	25,325	25,829	26,110	27,225	29,990	33,431	36,902
Agricultural sciences	7,927	7,963	7,525	7,291	7,125	7,078	6,753	6,709
Biological sciences, total	29,896	29,829	29,289	28,427	27,915	27,442	26,576	26,730
Anatomy	525	517	552	543	509	470	488	448
Biochemistry	3,238	3,148	2,987	2,926	2,919	2,835	2,739	2,694
Biology	7,460	7,377	7,482	7,359	7,064	6,846	6,401	6,185
Biometry/epidemiology	1,124	1,139	1,227	1,119	1,352	1,287	1,279	1,271
Biophysics	576	604	589	532	528	497	516	628
Botany	1,584	1,465	1,394	1,283	1,210	1,168	1,077	1,098
Cell biology	2,067	2,146	2,128	2,152	2,154	2,192	2,245	2,322
Ecology	821	906	847	838	832	817	838	888
Entomology/parasitology	846	827	810	751	754	739	662	690
Genetics	787	818	828	801	735	760	737	792
Microbio., immunology, & virology	2,604	2,569	2,480	2,409	2,402	2,365	2,381	2,303
Nutrition	1,273	1,296	1,238	1,144	1,073	1,077	1,034	993
Pathology	925	890	847	842	776	776	701	748
Pharmacology	1,487	1,399	1,372	1,368	1,405	1,414	1,444	1,446
Physiology	1,392	1,482	1,396	1,364	1,265	1,185	1,130	1,056
Zoology	1,184	1,175	1,065	947	910	872	821	763
Biosciences, n.e.c.	2,003	2,071	2,047	2,049	2,027	2,142	2,083	2,405
Psychology, total	16,416	15,877	15,375	15,507	15,095	14,494	13,674	13,215
Psychology, general	5,987	5,641	5,186	5,372	5,251	4,851	4,638	4,584
Clinical psychology	3,686	3,587	3,700	3,786	3,560	3,513	3,205	3,084
Psychology, n.e.c.	6,743	6,649	6,489	6,349	6,284	6,130	5,831	5,547
Social sciences, total	47,758	47,224	45,698	43,605	41,987	41,676	40,187	41,022
Agricultural economics	1,541	1,555	1,407	1,355	1,315	1,299	1,290	1,326
Anthropology (cultural & social)	3,072	3,140	3,087	3,059	3,021	2,989	2,945	2,929
Economics (except agricultural)	9,120	8,797	8,297	7,585	7,237	7,063	7,005	7,358
Geography	2,904	2,786	2,770	2,662	2,663	2,547	2,413	2,490
History and philosophy of science	247	262	257	281	315	345	313	327
Linguistics	1,213	1,194	1,133	1,051	982	966	930	951
Political science	18,733	18,348	17,620	16,679	15,867	15,806	15,235	15,332
Sociology	3,758	3,781	3,640	3,591	3,362	3,227	3,085	3,066
Sociology/anthropology	396	387	382	377	335	271	282	308
Social sciences, n.e.c.	6,774	6,974	7,105	6,965	6,890	7,163	6,689	6,935
Engineering, total	94,974	89,188	84,970	82,428	81,050	81,804	83,872	87,279
Aerospace engineering	3,357	2,992	2,856	2,712	2,755	2,926	2,938	3,000
Agricultural engineering	861	835	802	723	682	683	631	623
Biomedical engineering	2,053	2,006	1,999	2,021	2,035	2,117	2,171	2,352
Chemical engineering	6,110	5,885	5,757	5,568	5,366	5,150	5,212	5,084
Civil engineering	15,714	14,986	14,228	13,029	12,415	12,069	12,208	12,125
Electrical engineering	28,918	26,633	25,580	26,110	26,382	26,409	27,967	29,715
Engineering science	1,783	1,658	1,456	1,369	1,370	1,308	1,290	1,435
Industrial/manufacturing eng.	11,135	10,652	9,906	9,301	8,769	9,144	9,519	10,132
Mechanical engineering	15,938	14,686	13,873	13,266	12,934	13,168	13,604	13,892
Metallurgical/materials eng.	4,145	3,882	3,670	3,571	3,550	3,397	3,336	3,548
Mining engineering	374	331	317	285	249	273	241	204
Nuclear engineering	1,093	1,009	827	725	687	686	636	644
Petroleum engineering	565	539	502	484	516	560	540	588
Engineering, n.e.c.	2,928	3,094	3,197	3,264	3,340	3,914	3,579	3,937

See explanatory information, if any, and SOURCE at end of table.

**Table 11. Male graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	16,334	17,057	18,161	18,889	19,613	19,928	19,150	19,464
Medical fields, total	6,379	6,451	6,625	6,674	6,945	7,114	6,565	6,874
Anesthesiology	228	232	266	355	406	413	444	397
Cardiology	10	14	13	26	28	37	38	31
Oncology/cancer research	110	97	96	89	97	113	110	119
Endocrinology	25	21	24	24	33	35	29	25
Gastroenterology	0	0	0	1	6	2	8	1
Hematology	2	0	0	0	0	1	4	4
Neurology	892	900	949	987	1,058	1,086	1,090	1,123
Obstetrics and gynecology	2	4	3	9	8	6	10	15
Ophthalmology	15	12	12	14	14	19	27	23
Otorhinolaryngology	0	0	0	2	0	3	3	2
Pediatrics	43	40	54	59	55	55	90	53
Preventive medicine/community health	4,114	4,203	4,269	4,177	4,324	4,400	3,780	3,870
Psychiatry	42	45	51	39	21	23	32	50
Pulmonary disease	0	0	0	0	0	4	5	3
Radiology	234	217	182	177	164	162	139	156
Surgery	57	82	80	94	57	68	77	89
Clinical medicine, n.e.c.	605	584	626	621	674	687	679	913
Other health fields, total	9,955	10,606	11,536	12,215	12,668	12,814	12,585	12,590
Dental sciences	880	876	894	932	952	918	880	931
Nursing	1,506	1,661	1,765	2,036	2,159	2,261	2,181	2,258
Pharmaceutical sciences	1,585	1,524	1,523	1,423	1,518	1,732	1,764	1,893
Speech pathology/audiology	930	977	1,037	1,071	1,060	1,060	1,023	1,006
Veterinary sciences	495	512	531	608	609	578	607	610
Health related, n.e.c.	4,559	5,056	5,786	6,145	6,370	6,265	6,130	5,892

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 12. Female graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	216,044	220,335	222,419	222,711	224,608	230,650	231,639	238,844
Total, science and engineering fields	159,093	160,190	161,649	161,989	163,403	168,425	170,801	177,644
Sciences, total	141,043	142,177	143,395	143,269	144,415	148,538	149,989	155,417
Physical sciences, total	9,167	9,085	9,045	8,848	8,753	8,915	9,128	9,332
Astronomy	223	223	227	208	230	225	267	265
Chemistry	6,845	6,828	6,839	6,722	6,564	6,617	6,773	6,848
Physics	1,908	1,835	1,809	1,744	1,780	1,876	1,906	2,045
Physical sciences, n.e.c.	191	199	170	174	179	197	182	174
Earth, atmos., & ocean sci., total	5,319	5,434	5,447	5,416	5,568	5,725	5,751	5,892
Atmospheric sciences	242	237	234	263	234	242	268	298
Geosciences	2,223	2,283	2,320	2,296	2,315	2,400	2,453	2,483
Oceanography	1,115	1,107	1,070	1,055	1,162	1,222	1,267	1,255
Earth, atmos., & ocean sci., n.e.c.	1,739	1,807	1,823	1,802	1,857	1,861	1,763	1,856
Mathematical sciences, total	6,531	6,258	6,219	5,868	5,988	6,043	5,781	6,277
Mathematics & applied mathematics	5,402	5,069	4,986	4,783	4,895	4,862	4,509	4,828
Statistics	1,129	1,189	1,233	1,085	1,093	1,181	1,272	1,449
Computer sciences	8,087	8,133	8,797	9,881	10,802	12,570	14,163	15,294
Agricultural sciences	4,315	4,459	4,449	4,561	4,719	4,910	4,931	5,202
Biological sciences, total	28,137	28,851	28,771	28,617	29,079	29,673	29,918	31,096
Anatomy	493	465	467	460	413	416	436	419
Biochemistry	2,377	2,414	2,288	2,176	2,229	2,266	2,224	2,223
Biology	6,748	6,903	7,129	7,287	7,213	7,143	7,009	7,170
Biometry/epidemiology	1,586	1,673	1,774	1,781	2,159	2,242	2,192	2,358
Biophysics	218	241	244	216	209	213	229	265
Botany	1,164	1,144	1,110	1,119	1,118	1,093	1,099	1,084
Cell biology	1,762	1,848	1,894	1,959	2,052	2,273	2,402	2,446
Ecology	745	774	768	781	823	870	906	960
Entomology/parasitology	417	414	424	410	414	406	442	480
Genetics	912	882	901	959	970	1,007	968	1,041
Microbio., immunology, & virology	2,490	2,457	2,432	2,396	2,371	2,450	2,434	2,495
Nutrition	3,518	3,775	3,680	3,460	3,413	3,431	3,396	3,436
Pathology	782	780	809	832	804	804	828	901
Pharmacology	1,352	1,311	1,291	1,229	1,325	1,343	1,515	1,606
Physiology	986	1,058	981	934	886	898	877	911
Zoology	844	831	787	722	712	686	660	685
Biosciences, n.e.c.	1,743	1,881	1,792	1,896	1,968	2,132	2,301	2,616
Psychology, total	38,138	37,764	37,747	37,619	37,462	37,370	37,030	37,583
Psychology, general	12,369	11,995	11,646	11,874	11,844	11,384	11,087	11,438
Clinical psychology	8,998	8,932	9,087	9,312	9,173	9,285	9,283	9,389
Psychology, n.e.c.	16,771	16,837	17,014	16,433	16,445	16,701	16,660	16,756
Social sciences, total	41,349	42,193	42,920	42,459	42,044	43,332	43,287	44,741
Agricultural economics	748	783	710	688	680	715	789	835
Anthropology (cultural & social)	4,593	4,553	4,686	4,501	4,556	4,644	4,688	4,562
Economics (except agricultural)	3,793	3,876	3,783	3,512	3,464	3,499	3,773	3,982
Geography	1,598	1,585	1,561	1,625	1,663	1,703	1,631	1,786
History and philosophy of science	140	139	152	162	193	212	219	244
Linguistics	2,066	2,000	2,023	2,017	1,953	1,833	1,744	1,793
Political science	15,584	15,950	15,632	15,404	14,961	15,575	15,944	16,518
Sociology	5,740	5,783	5,785	5,822	5,696	5,739	5,604	5,709
Sociology/anthropology	591	554	541	571	522	470	463	500
Social sciences, n.e.c.	6,496	6,970	8,047	8,157	8,356	8,942	8,432	8,812
Engineering, total	18,050	18,013	18,254	18,720	18,988	19,887	20,812	22,227
Aerospace engineering	358	351	352	371	382	423	469	485
Agricultural engineering	200	202	210	218	243	251	268	284
Biomedical engineering	697	726	733	826	870	1,004	1,070	1,241
Chemical engineering	1,529	1,567	1,651	1,720	1,727	1,733	1,881	1,829
Civil engineering	4,211	4,232	4,300	4,164	4,102	4,157	4,286	4,479
Electrical engineering	4,102	4,088	4,122	4,438	4,747	4,973	5,351	6,030
Engineering science	306	297	295	278	331	319	342	363
Industrial/manufacturing eng.	2,857	2,823	2,769	2,656	2,452	2,659	2,734	2,808
Mechanical engineering	1,823	1,677	1,636	1,779	1,762	1,788	1,853	1,939
Metallurgical/materials eng.	1,083	1,074	1,077	1,117	1,130	1,084	1,041	1,173
Mining engineering	50	42	54	63	55	55	46	36
Nuclear engineering	153	145	153	143	134	144	156	157
Petroleum engineering	59	71	60	77	55	82	87	92
Engineering, n.e.c.	622	718	842	870	998	1,215	1,228	1,311

See explanatory information, if any, and SOURCE at end of table.

**Table 12. Female graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	56,951	60,145	60,770	60,722	61,205	62,225	60,838	61,200
Medical fields, total	8,686	9,115	8,771	8,829	9,745	10,241	9,968	10,644
Anesthesiology	501	517	488	485	501	467	429	494
Cardiology	4	5	5	7	8	26	15	19
Oncology/cancer research	98	92	89	109	112	137	127	142
Endocrinology	38	32	22	19	25	32	28	28
Gastroenterology	0	0	0	2	0	5	6	6
Hematology	0	1	3	3	1	4	2	2
Neurology	580	671	704	730	767	821	892	1,013
Obstetrics and gynecology	2	2	1	9	5	10	6	13
Ophthalmology	17	18	21	19	24	30	31	23
Otorhinolaryngology	2	0	0	0	0	0	6	2
Pediatrics	218	198	221	283	273	261	313	327
Preventive medicine/community health	6,366	6,683	6,329	6,283	7,195	7,590	7,090	7,302
Psychiatry	183	204	167	189	115	96	147	156
Pulmonary disease	0	0	0	0	0	2	2	5
Radiology	86	97	103	90	85	67	91	106
Surgery	62	92	87	77	65	54	70	41
Clinical medicine, n.e.c.	529	503	531	524	569	639	713	965
Other health fields, total	48,265	51,030	51,999	51,893	51,460	51,984	50,870	50,556
Dental sciences	418	462	494	559	566	549	550	563
Nursing	25,491	26,744	25,623	24,825	23,432	22,813	21,160	21,351
Pharmaceutical sciences	1,302	1,284	1,323	1,287	1,364	1,690	1,841	2,015
Speech pathology/audiology	10,426	11,005	11,820	12,141	12,138	12,540	12,632	12,187
Veterinary sciences	427	463	466	616	679	736	760	866
Health related, n.e.c.	10,201	11,072	12,273	12,465	13,281	13,656	13,927	13,574

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 13. Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 1 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	504,399	499,640	494,079	487,208	485,627	493,410	494,671	510,156
Total U.S. citizens and permanent residents	397,852	396,755	391,095	383,327	378,560	377,979	367,307	370,581
American Indian/Alaskan Native	1,724	1,856	1,906	1,969	2,036	1,997	2,023	2,140
Asian/Pacific Islander	29,617	29,361	29,926	30,371	31,615	32,725	31,470	33,256
Black, non-Hispanic	21,174	22,148	22,972	23,560	24,261	25,260	26,082	27,428
Hispanic	15,963	17,237	17,742	18,154	18,765	20,338	21,344	22,321
Other or unknown	17,510	21,715	21,385	22,666	22,433	22,244	24,494	25,286
White, non-Hispanic	311,864	304,438	297,164	286,607	279,450	275,415	261,894	260,150
Students with temporary visas	106,547	102,885	102,984	103,881	107,067	115,431	127,364	139,575
Total, science and engineering	431,114	422,438	415,148	407,597	404,809	411,257	414,683	429,492
Total U.S. citizens and permanent residents	328,998	323,935	317,043	308,636	302,837	301,367	292,845	296,194
American Indian/Alaskan Native	1,382	1,516	1,538	1,599	1,607	1,556	1,604	1,687
Asian/Pacific Islander	26,470	25,901	25,928	26,012	26,724	27,575	26,226	27,659
Black, non-Hispanic	17,610	18,285	19,066	19,341	19,649	20,330	20,977	21,773
Hispanic	13,273	14,112	14,571	14,984	15,485	16,533	17,220	17,983
Other or unknown	14,630	18,290	17,939	18,725	18,741	18,588	20,655	21,335
White, non-Hispanic	255,633	245,831	238,001	227,975	220,631	216,785	206,163	205,757
Students with temporary visas	102,116	98,503	98,105	98,961	101,972	109,890	121,838	133,298
Sciences, total	318,090	315,237	311,924	306,449	304,771	309,566	309,999	319,986
Total U.S. citizens and permanent residents	252,980	252,218	248,875	243,994	240,588	241,179	234,917	238,598
American Indian/Alaskan Native	1,141	1,286	1,304	1,360	1,371	1,314	1,395	1,460
Asian/Pacific Islander	16,683	16,883	17,488	17,879	18,712	19,414	18,142	19,057
Black, non-Hispanic	14,826	15,428	16,167	16,462	16,828	17,365	17,975	18,852
Hispanic	10,410	11,304	11,635	12,172	12,585	13,609	14,200	14,785
Other or unknown	10,275	13,417	13,369	14,239	14,559	14,755	16,355	17,007
White, non-Hispanic	199,645	193,900	188,912	181,882	176,533	174,722	166,850	167,437
Students with temporary visas	65,110	63,019	63,049	62,455	64,183	68,387	75,082	81,388
Physical sciences	34,466	33,399	32,333	31,105	30,575	30,691	30,463	30,988
Total U.S. citizens and permanent residents	22,757	21,990	21,155	20,210	19,837	19,559	18,900	18,995
American Indian/Alaskan Native	67	76	60	70	64	69	75	81
Asian/Pacific Islander	1,923	1,780	1,745	1,638	1,760	1,682	1,620	1,612
Black, non-Hispanic	856	897	986	952	913	903	916	879
Hispanic	675	731	742	782	832	895	846	896
Other or unknown	799	1,020	865	1,001	1,050	973	1,057	1,292
White, non-Hispanic	18,437	17,486	16,757	15,767	15,218	15,037	14,386	14,235
Students with temporary visas	11,709	11,409	11,178	10,895	10,738	11,132	11,563	11,993
Earth, atmos., & ocean sci.	15,957	15,716	15,183	14,548	14,258	14,083	13,940	13,841
Total U.S. citizens and permanent residents	12,693	12,769	12,417	12,033	11,759	11,563	11,248	11,080
American Indian/Alaskan Native	48	52	65	82	84	63	61	70
Asian/Pacific Islander	449	419	409	417	424	400	351	352
Black, non-Hispanic	202	215	219	203	202	213	220	227
Hispanic	339	365	374	399	370	400	355	397
Other or unknown	373	473	477	530	581	480	450	451
White, non-Hispanic	11,282	11,245	10,873	10,402	10,098	10,007	9,811	9,583
Students with temporary visas	3,264	2,947	2,766	2,515	2,499	2,520	2,692	2,761
Mathematical sciences	19,573	18,504	18,008	16,719	16,485	16,257	15,646	16,663
Total U.S. citizens and permanent residents	13,510	12,695	12,247	11,175	11,064	10,330	9,612	10,193
American Indian/Alaskan Native	36	70	41	43	34	30	24	38
Asian/Pacific Islander	1,208	1,121	1,223	1,051	1,174	1,002	963	997
Black, non-Hispanic	673	689	711	657	613	594	569	591
Hispanic	369	400	425	427	454	447	460	498
Other or unknown	734	761	651	646	692	598	630	683
White, non-Hispanic	10,490	9,654	9,196	8,351	8,097	7,659	6,966	7,386
Students with temporary visas	6,063	5,809	5,761	5,544	5,421	5,927	6,034	6,470
Computer sciences	34,158	33,458	34,626	35,991	38,027	42,560	47,594	52,196
Total U.S. citizens and permanent residents	23,096	22,663	22,779	23,074	23,605	25,405	25,454	26,447
American Indian/Alaskan Native	44	56	54	60	92	75	81	88
Asian/Pacific Islander	4,046	4,043	4,266	4,626	5,219	6,156	5,558	5,716
Black, non-Hispanic	1,182	1,155	1,276	1,300	1,355	1,501	1,533	1,726
Hispanic	631	664	700	723	754	872	872	901
Other or unknown	1,441	1,972	2,004	2,303	2,237	2,378	2,845	2,977
White, non-Hispanic	15,752	14,773	14,479	14,062	13,948	14,423	14,565	15,039
Students with temporary visas	11,062	10,795	11,847	12,917	14,422	17,155	22,140	25,749

See explanatory information, if any, and SOURCE at end of table.

Table 13. Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 2 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Agricultural sciences	12,242	12,422	11,974	11,852	11,844	11,988	11,684	11,911
Total U.S. citizens and permanent residents	9,121	9,343	9,044	9,146	9,261	9,514	9,324	9,408
American Indian/Alaskan Native	38	60	48	62	70	68	56	57
Asian/Pacific Islander	281	280	283	302	305	306	247	258
Black, non-Hispanic	240	297	270	230	313	277	266	301
Hispanic	268	289	374	408	387	417	433	422
Other or unknown	273	377	269	347	294	270	405	476
White, non-Hispanic	8,021	8,040	7,800	7,797	7,892	8,176	7,917	7,894
Students with temporary visas	3,121	3,079	2,930	2,706	2,583	2,474	2,360	2,503
Biological sciences	58,033	58,680	58,060	57,044	56,994	57,115	56,494	57,826
Total U.S. citizens and permanent residents	45,244	46,490	46,600	45,898	45,591	45,897	44,730	45,441
American Indian/Alaskan Native	183	205	200	197	192	186	188	205
Asian/Pacific Islander	3,949	4,299	4,465	4,486	4,447	4,468	4,238	4,719
Black, non-Hispanic	1,709	1,882	2,008	2,163	2,171	2,244	2,264	2,369
Hispanic	1,647	1,825	1,851	1,990	2,056	2,186	2,188	2,338
Other or unknown	1,432	1,816	1,792	2,102	2,218	2,396	2,426	2,499
White, non-Hispanic	36,324	36,463	36,284	34,960	34,507	34,417	33,426	33,311
Students with temporary visas	12,789	12,190	11,460	11,146	11,403	11,218	11,764	12,385
Psychology	54,554	53,641	53,122	53,126	52,557	51,864	50,704	50,798
Total U.S. citizens and permanent residents	52,211	51,554	51,149	51,118	50,371	49,625	48,444	48,285
American Indian/Alaskan Native	317	330	359	341	311	303	362	336
Asian/Pacific Islander	1,583	1,598	1,757	1,909	2,019	2,043	2,076	2,165
Black, non-Hispanic	3,529	3,359	3,452	3,644	3,813	3,787	4,265	4,621
Hispanic	2,485	2,799	2,937	3,075	3,228	3,575	4,154	4,323
Other or unknown	2,235	3,322	3,317	3,425	3,378	3,567	3,627	3,282
White, non-Hispanic	42,062	40,146	39,327	38,724	37,622	36,350	33,960	33,558
Students with temporary visas	2,343	2,087	1,973	2,008	2,186	2,239	2,260	2,513
Social sciences	89,107	89,417	88,618	86,064	84,031	85,008	83,474	85,763
Total U.S. citizens and permanent residents	74,348	74,714	73,484	71,340	69,100	69,286	67,205	68,749
American Indian/Alaskan Native	408	437	477	505	524	520	548	585
Asian/Pacific Islander	3,244	3,343	3,340	3,450	3,364	3,357	3,089	3,238
Black, non-Hispanic	6,435	6,934	7,245	7,313	7,448	7,846	7,942	8,138
Hispanic	3,996	4,231	4,232	4,368	4,504	4,817	4,892	5,010
Other or unknown	2,988	3,676	3,994	3,885	4,109	4,093	4,915	5,347
White, non-Hispanic	57,277	56,093	54,196	51,819	49,151	48,653	45,819	46,431
Students with temporary visas	14,759	14,703	15,134	14,724	14,931	15,722	16,269	17,014
Engineering, total	113,024	107,201	103,224	101,148	100,038	101,691	104,684	109,506
Total U.S. citizens and permanent residents	76,018	71,717	68,168	64,642	62,249	60,188	57,928	57,596
American Indian/Alaskan Native	241	230	234	239	236	242	209	227
Asian/Pacific Islander	9,787	9,018	8,440	8,133	8,012	8,161	8,084	8,602
Black, non-Hispanic	2,784	2,857	2,899	2,879	2,821	2,965	3,002	2,921
Hispanic	2,863	2,808	2,936	2,812	2,900	2,924	3,020	3,198
Other or unknown	4,355	4,873	4,570	4,486	4,182	3,833	4,300	4,328
White, non-Hispanic	55,988	51,931	49,089	46,093	44,098	42,063	39,313	38,320
Students with temporary visas	37,006	35,484	35,056	36,506	37,789	41,503	46,756	51,910
Chemical engineering	7,639	7,452	7,408	7,288	7,093	6,883	7,093	6,913
Total U.S. citizens and permanent residents	4,612	4,483	4,521	4,424	4,208	3,869	3,798	3,500
American Indian/Alaskan Native	18	21	31	18	21	16	20	13
Asian/Pacific Islander	524	458	482	512	469	486	550	576
Black, non-Hispanic	157	175	191	172	185	147	169	167
Hispanic	171	202	200	142	179	182	181	180
Other or unknown	210	198	223	215	230	233	229	147
White, non-Hispanic	3,532	3,429	3,394	3,365	3,124	2,805	2,649	2,417
Students with temporary visas	3,027	2,969	2,887	2,864	2,885	3,014	3,295	3,413
Civil engineering	19,925	19,218	18,528	17,193	16,517	16,226	16,494	16,604
Total U.S. citizens and permanent residents	13,967	13,559	13,263	12,090	11,555	10,801	10,380	10,061
American Indian/Alaskan Native	38	42	48	58	43	56	39	43
Asian/Pacific Islander	1,339	1,322	1,254	1,050	1,104	931	770	789
Black, non-Hispanic	424	471	491	443	410	450	450	431
Hispanic	551	593	712	694	723	701	779	746
Other or unknown	586	697	775	637	610	575	543	590
White, non-Hispanic	11,029	10,434	9,983	9,208	8,665	8,088	7,799	7,462
Students with temporary visas	5,958	5,659	5,265	5,103	4,962	5,425	6,114	6,543

See explanatory information, if any, and SOURCE at end of table.

Table 13. Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 3 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Electrical engineering	33,020	30,721	29,702	30,548	31,129	31,382	33,318	35,745
Total U.S. citizens and permanent residents	21,612	19,504	18,332	17,903	17,328	16,282	15,520	15,772
American Indian/Alaskan Native	52	51	50	46	33	47	37	45
Asian/Pacific Islander	4,098	3,707	3,543	3,487	3,435	3,488	3,418	3,728
Black, non-Hispanic	861	821	777	871	872	885	831	813
Hispanic	855	784	793	810	812	769	717	825
Other or unknown	1,453	1,535	1,436	1,624	1,497	1,266	1,595	1,544
White, non-Hispanic	14,293	12,606	11,733	11,065	10,679	9,827	8,922	8,817
Students with temporary visas	11,408	11,217	11,370	12,645	13,801	15,100	17,798	19,973
Industrial engineering	13,992	13,475	12,675	11,957	11,221	11,803	12,253	12,940
Total U.S. citizens and permanent residents	10,404	10,123	9,349	8,616	7,869	8,073	7,815	7,617
American Indian/Alaskan Native	24	24	22	23	34	39	41	43
Asian/Pacific Islander	882	855	750	739	643	784	734	696
Black, non-Hispanic	514	541	535	489	465	541	577	591
Hispanic	384	386	421	396	364	426	440	469
Other or unknown	884	1,055	757	578	599	522	585	563
White, non-Hispanic	7,716	7,262	6,864	6,391	5,764	5,761	5,438	5,255
Students with temporary visas	3,588	3,352	3,326	3,341	3,352	3,730	4,438	5,323
Mechanical engineering	17,761	16,363	15,509	15,045	14,696	14,956	15,457	15,831
Total U.S. citizens and permanent residents	11,940	10,905	10,026	9,351	9,046	8,760	8,551	8,290
American Indian/Alaskan Native	54	44	35	35	25	33	28	32
Asian/Pacific Islander	1,421	1,225	1,073	947	973	1,008	1,121	1,072
Black, non-Hispanic	398	403	417	428	412	375	398	354
Hispanic	453	422	383	360	389	388	365	425
Other or unknown	721	752	657	602	590	465	576	510
White, non-Hispanic	8,893	8,059	7,461	6,979	6,657	6,491	6,063	5,897
Students with temporary visas	5,821	5,458	5,483	5,694	5,650	6,196	6,906	7,541
Other engineering	20,687	19,972	19,402	19,117	19,382	20,441	20,069	21,473
Total U.S. citizens and permanent residents	13,483	13,143	12,677	12,258	12,243	12,403	11,864	12,356
American Indian/Alaskan Native	55	48	48	59	80	51	44	51
Asian/Pacific Islander	1,523	1,451	1,338	1,398	1,388	1,464	1,491	1,741
Black, non-Hispanic	430	446	488	476	477	567	577	565
Hispanic	449	421	427	410	433	458	538	553
Other or unknown	501	636	722	830	656	772	772	974
White, non-Hispanic	10,525	10,141	9,654	9,085	9,209	9,091	8,442	8,472
Students with temporary visas	7,204	6,829	6,725	6,859	7,139	8,038	8,205	9,117
Total, health fields	73,285	77,202	78,931	79,611	80,818	82,153	79,988	80,664
Total U.S. citizens and permanent residents	68,854	72,820	74,052	74,691	75,723	76,612	74,462	74,387
American Indian/Alaskan Native	342	340	368	370	429	441	419	453
Asian/Pacific Islander	3,147	3,460	3,998	4,359	4,891	5,150	5,244	5,597
Black, non-Hispanic	3,564	3,863	3,906	4,219	4,612	4,930	5,105	5,655
Hispanic	2,690	3,125	3,171	3,170	3,280	3,805	4,124	4,338
Other or unknown	2,880	3,425	3,446	3,941	3,692	3,656	3,839	3,951
White, non-Hispanic	56,231	58,607	59,163	58,632	58,819	58,630	55,731	54,393
Students with temporary visas	4,431	4,382	4,879	4,920	5,095	5,541	5,526	6,277

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 1 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	288,355	279,305	271,660	264,497	261,019	262,760	263,032	271,312
Total U.S. citizens and permanent residents	209,961	204,854	198,157	191,330	186,588	183,226	175,297	175,566
American Indian/Alaskan Native	771	833	863	890	891	851	842	929
Asian/Pacific Islander	18,186	17,483	17,268	17,118	17,564	17,754	17,014	17,781
Black, non-Hispanic	8,669	8,930	8,970	9,115	9,245	9,553	9,355	9,540
Hispanic	7,835	8,174	8,445	8,559	8,756	9,187	9,364	9,665
Other or unknown	9,868	11,997	11,346	11,941	11,840	11,433	12,719	13,040
White, non-Hispanic	164,632	157,437	151,265	143,707	138,292	134,448	126,003	124,611
Students with temporary visas	78,394	74,451	73,503	73,167	74,431	79,534	87,735	95,746
Total, science and engineering	272,021	262,248	253,499	245,608	241,406	242,832	243,882	251,848
Total U.S. citizens and permanent residents	195,784	189,907	182,508	174,924	169,471	165,892	158,605	158,958
American Indian/Alaskan Native	693	753	768	804	797	745	734	808
Asian/Pacific Islander	17,151	16,371	15,946	15,682	15,895	16,048	15,327	15,997
Black, non-Hispanic	8,046	8,210	8,247	8,329	8,320	8,587	8,362	8,482
Hispanic	7,194	7,400	7,647	7,695	7,840	8,204	8,281	8,529
Other or unknown	9,137	11,170	10,586	10,932	10,901	10,462	11,710	12,063
White, non-Hispanic	153,563	146,003	139,314	131,482	125,718	121,846	114,191	113,079
Students with temporary visas	76,237	72,341	70,991	70,684	71,935	76,940	85,277	92,890
Sciences, total	177,047	173,060	168,529	163,180	160,356	161,028	160,010	164,569
Total U.S. citizens and permanent residents	132,972	131,167	127,175	122,813	119,603	118,085	112,909	113,876
American Indian/Alaskan Native	514	572	577	624	624	570	595	646
Asian/Pacific Islander	9,183	9,134	9,288	9,331	9,717	9,896	9,134	9,559
Black, non-Hispanic	6,079	6,253	6,292	6,366	6,378	6,598	6,394	6,544
Hispanic	4,911	5,204	5,380	5,522	5,627	5,982	6,000	6,172
Other or unknown	5,484	7,058	6,793	7,310	7,471	7,392	8,234	8,635
White, non-Hispanic	106,801	102,946	98,845	93,660	89,786	87,647	82,552	82,320
Students with temporary visas	44,075	41,893	41,354	40,367	40,753	42,943	47,101	50,693
Physical sciences	25,299	24,314	23,288	22,257	21,822	21,776	21,335	21,656
Total U.S. citizens and permanent residents	16,559	15,940	15,151	14,373	14,004	13,697	13,032	13,085
American Indian/Alaskan Native	49	57	42	46	41	40	54	54
Asian/Pacific Islander	1,253	1,159	1,097	1,044	1,150	1,046	1,018	1,021
Black, non-Hispanic	497	529	550	508	481	501	493	466
Hispanic	444	469	455	499	525	549	509	539
Other or unknown	563	722	621	689	759	689	737	928
White, non-Hispanic	13,753	13,004	12,386	11,587	11,048	10,872	10,221	10,077
Students with temporary visas	8,740	8,374	8,137	7,884	7,818	8,079	8,303	8,571
Earth, atmos., & ocean sci.	10,638	10,282	9,736	9,132	8,690	8,358	8,189	7,949
Total U.S. citizens and permanent residents	8,251	8,132	7,742	7,336	6,954	6,695	6,393	6,164
American Indian/Alaskan Native	25	31	36	47	44	32	33	37
Asian/Pacific Islander	294	260	249	253	238	208	179	179
Black, non-Hispanic	117	116	115	105	103	112	120	125
Hispanic	212	223	230	236	202	200	186	196
Other or unknown	241	302	292	332	334	270	262	257
White, non-Hispanic	7,362	7,200	6,820	6,363	6,033	5,873	5,613	5,370
Students with temporary visas	2,387	2,150	1,994	1,796	1,736	1,663	1,796	1,785
Mathematical sciences	13,042	12,246	11,789	10,851	10,497	10,214	9,865	10,386
Total U.S. citizens and permanent residents	8,668	8,093	7,690	7,006	6,859	6,348	5,942	6,252
American Indian/Alaskan Native	24	43	24	29	16	12	14	22
Asian/Pacific Islander	735	669	701	622	704	565	544	558
Black, non-Hispanic	343	385	368	347	339	324	294	320
Hispanic	241	248	266	254	276	270	310	329
Other or unknown	503	520	425	438	467	379	422	435
White, non-Hispanic	6,822	6,228	5,906	5,316	5,057	4,798	4,358	4,588
Students with temporary visas	4,374	4,153	4,099	3,845	3,638	3,866	3,923	4,134
Computer sciences	26,071	25,325	25,829	26,110	27,225	29,990	33,431	36,902
Total U.S. citizens and permanent residents	17,428	17,126	17,043	16,876	17,028	17,968	17,926	18,705
American Indian/Alaskan Native	36	41	40	43	68	51	51	59
Asian/Pacific Islander	2,689	2,706	2,834	2,978	3,299	3,834	3,458	3,624
Black, non-Hispanic	696	652	716	765	764	824	855	953
Hispanic	471	502	523	513	559	659	623	656
Other or unknown	1,053	1,535	1,491	1,658	1,588	1,711	2,023	2,132
White, non-Hispanic	12,483	11,690	11,439	10,919	10,750	10,889	10,916	11,281
Students with temporary visas	8,643	8,199	8,786	9,234	10,197	12,022	15,505	18,197

See explanatory information, if any, and SOURCE at end of table.

Table 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 2 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Agricultural sciences	7,927	7,963	7,525	7,291	7,125	7,078	6,753	6,709
Total U.S. citizens and permanent residents	5,646	5,744	5,437	5,399	5,365	5,430	5,216	5,150
American Indian/Alaskan Native	21	30	22	34	45	46	34	35
Asian/Pacific Islander	171	151	143	164	155	139	109	112
Black, non-Hispanic	119	151	131	104	149	135	118	109
Hispanic	144	155	206	246	210	209	223	211
Other or unknown	165	235	168	189	161	160	226	267
White, non-Hispanic	5,026	5,022	4,767	4,662	4,645	4,741	4,506	4,416
Students with temporary visas	2,281	2,219	2,088	1,892	1,760	1,648	1,537	1,559
Biological sciences	29,896	29,829	29,289	28,427	27,915	27,442	26,576	26,730
Total U.S. citizens and permanent residents	22,661	23,101	23,107	22,425	21,985	21,682	20,660	20,692
American Indian/Alaskan Native	77	87	93	91	88	80	79	95
Asian/Pacific Islander	2,021	2,165	2,255	2,166	2,093	2,097	1,991	2,183
Black, non-Hispanic	668	690	721	777	783	781	774	805
Hispanic	766	851	850	899	924	967	962	1,007
Other or unknown	715	963	941	1,058	1,126	1,178	1,199	1,181
White, non-Hispanic	18,414	18,345	18,247	17,434	16,971	16,579	15,655	15,421
Students with temporary visas	7,235	6,728	6,182	6,002	5,930	5,760	5,916	6,038
Psychology	16,416	15,877	15,375	15,507	15,095	14,494	13,674	13,215
Total U.S. citizens and permanent residents	15,475	15,020	14,667	14,757	14,297	13,704	12,921	12,439
American Indian/Alaskan Native	97	93	111	118	87	88	103	83
Asian/Pacific Islander	435	416	465	510	551	536	533	539
Black, non-Hispanic	851	817	808	908	887	915	883	947
Hispanic	705	762	807	860	881	958	1,041	1,050
Other or unknown	675	949	902	1,045	976	985	938	819
White, non-Hispanic	12,712	11,983	11,574	11,316	10,915	10,222	9,423	9,001
Students with temporary visas	941	857	708	750	798	790	753	776
Social sciences	47,758	47,224	45,698	43,605	41,987	41,676	40,187	41,022
Total U.S. citizens and permanent residents	38,284	38,011	36,338	34,641	33,111	32,561	30,819	31,389
American Indian/Alaskan Native	185	190	209	216	235	221	227	261
Asian/Pacific Islander	1,585	1,608	1,544	1,594	1,527	1,471	1,302	1,343
Black, non-Hispanic	2,788	2,913	2,883	2,852	2,872	3,006	2,857	2,819
Hispanic	1,928	1,994	2,043	2,015	2,050	2,170	2,146	2,184
Other or unknown	1,569	1,832	1,953	1,901	2,060	2,020	2,427	2,616
White, non-Hispanic	30,229	29,474	27,706	26,063	24,367	23,673	21,860	22,166
Students with temporary visas	9,474	9,213	9,360	8,964	8,876	9,115	9,368	9,633
Engineering, total	94,974	89,188	84,970	82,428	81,050	81,804	83,872	87,279
Total U.S. citizens and permanent residents	62,812	58,740	55,333	52,111	49,868	47,807	45,696	45,082
American Indian/Alaskan Native	179	181	191	180	173	175	139	162
Asian/Pacific Islander	7,968	7,237	6,658	6,351	6,178	6,152	6,193	6,438
Black, non-Hispanic	1,967	1,957	1,955	1,963	1,942	1,989	1,968	1,938
Hispanic	2,283	2,196	2,267	2,173	2,213	2,222	2,281	2,357
Other or unknown	3,653	4,112	3,793	3,622	3,430	3,070	3,476	3,428
White, non-Hispanic	46,762	43,057	40,469	37,822	35,932	34,199	31,639	30,759
Students with temporary visas	32,162	30,448	29,637	30,317	31,182	33,997	38,176	42,197
Chemical engineering	6,110	5,885	5,757	5,568	5,366	5,150	5,212	5,084
Total U.S. citizens and permanent residents	3,558	3,438	3,457	3,348	3,149	2,849	2,731	2,502
American Indian/Alaskan Native	12	13	23	10	13	11	9	5
Asian/Pacific Islander	384	337	345	361	321	310	379	403
Black, non-Hispanic	78	85	94	85	105	68	91	78
Hispanic	120	133	130	105	114	128	112	108
Other or unknown	157	146	176	164	176	170	163	101
White, non-Hispanic	2,807	2,724	2,689	2,623	2,420	2,162	1,977	1,807
Students with temporary visas	2,552	2,447	2,300	2,220	2,217	2,301	2,481	2,582
Civil engineering	15,714	14,986	14,228	13,029	12,415	12,069	12,208	12,125
Total U.S. citizens and permanent residents	10,657	10,294	9,946	8,975	8,509	7,846	7,457	7,118
American Indian/Alaskan Native	21	32	38	41	31	43	29	29
Asian/Pacific Islander	997	957	903	760	791	615	524	507
Black, non-Hispanic	288	313	330	299	277	277	273	273
Hispanic	396	422	508	488	504	498	541	509
Other or unknown	456	537	592	491	447	423	415	435
White, non-Hispanic	8,499	8,033	7,575	6,896	6,459	5,990	5,675	5,365
Students with temporary visas	5,057	4,692	4,282	4,054	3,906	4,223	4,751	5,007

See explanatory information, if any, and SOURCE at end of table.

Table 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 3 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Electrical engineering	28,918	26,633	25,580	26,110	26,382	26,409	27,967	29,715
Total U.S. citizens and permanent residents	18,926	16,934	15,868	15,463	14,867	13,943	13,239	13,370
American Indian/Alaskan Native	45	46	45	39	25	36	26	39
Asian/Pacific Islander	3,419	3,057	2,872	2,796	2,730	2,784	2,689	2,945
Black, non-Hispanic	670	634	610	678	679	685	629	622
Hispanic	730	671	672	689	692	631	618	683
Other or unknown	1,266	1,351	1,244	1,348	1,273	1,063	1,319	1,258
White, non-Hispanic	12,796	11,175	10,425	9,913	9,468	8,744	7,958	7,823
Students with temporary visas	9,992	9,699	9,712	10,647	11,515	12,466	14,728	16,345
Industrial engineering	11,135	10,652	9,906	9,301	8,769	9,144	9,519	10,132
Total U.S. citizens and permanent residents	8,106	7,817	7,130	6,537	6,000	6,070	5,892	5,726
American Indian/Alaskan Native	17	17	18	17	23	23	27	30
Asian/Pacific Islander	703	690	574	563	487	586	564	501
Black, non-Hispanic	309	313	294	270	257	309	321	349
Hispanic	281	280	303	281	247	291	300	302
Other or unknown	746	891	621	453	494	415	469	451
White, non-Hispanic	6,050	5,626	5,320	4,953	4,492	4,446	4,211	4,093
Students with temporary visas	3,029	2,835	2,776	2,764	2,769	3,074	3,627	4,406
Mechanical engineering	15,938	14,686	13,873	13,266	12,934	13,168	13,604	13,892
Total U.S. citizens and permanent residents	10,571	9,681	8,882	8,185	7,893	7,619	7,466	7,165
American Indian/Alaskan Native	44	37	28	27	20	25	19	23
Asian/Pacific Islander	1,244	1,044	910	804	835	829	975	892
Black, non-Hispanic	324	319	327	324	308	287	295	273
Hispanic	398	367	323	298	332	336	316	359
Other or unknown	622	673	599	515	532	400	503	444
White, non-Hispanic	7,939	7,241	6,695	6,217	5,866	5,742	5,358	5,174
Students with temporary visas	5,367	5,005	4,991	5,081	5,041	5,549	6,138	6,727
Other engineering	17,159	16,346	15,626	15,154	15,184	15,864	15,362	16,331
Total U.S. citizens and permanent residents	10,994	10,576	10,050	9,603	9,450	9,480	8,911	9,201
American Indian/Alaskan Native	40	36	39	46	61	37	29	36
Asian/Pacific Islander	1,221	1,152	1,054	1,067	1,014	1,028	1,062	1,190
Black, non-Hispanic	298	293	300	307	316	363	359	343
Hispanic	358	323	331	312	324	338	394	396
Other or unknown	406	514	561	651	508	599	607	739
White, non-Hispanic	8,671	8,258	7,765	7,220	7,227	7,115	6,460	6,497
Students with temporary visas	6,165	5,770	5,576	5,551	5,734	6,384	6,451	7,130
Total, health fields	16,334	17,057	18,161	18,889	19,613	19,928	19,150	19,464
Total U.S. citizens and permanent residents	14,177	14,947	15,649	16,406	17,117	17,334	16,692	16,608
American Indian/Alaskan Native	78	80	95	86	94	106	108	121
Asian/Pacific Islander	1,035	1,112	1,322	1,436	1,669	1,706	1,687	1,784
Black, non-Hispanic	623	720	723	786	925	966	993	1,058
Hispanic	641	774	798	864	916	983	1,083	1,136
Other or unknown	731	827	760	1,009	939	971	1,009	977
White, non-Hispanic	11,069	11,434	11,951	12,225	12,574	12,602	11,812	11,532
Students with temporary visas	2,157	2,110	2,512	2,483	2,496	2,594	2,458	2,856

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 15. Female graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 1 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	216,044	220,335	222,419	222,711	224,608	230,650	231,639	238,844
Total U.S. citizens and permanent residents	187,891	191,901	192,938	191,997	191,972	194,753	192,010	195,015
American Indian/Alaskan Native	953	1,023	1,043	1,079	1,145	1,146	1,181	1,211
Asian/Pacific Islander	11,431	11,878	12,658	13,253	14,051	14,971	14,456	15,475
Black, non-Hispanic	12,505	13,218	14,002	14,445	15,016	15,707	16,727	17,888
Hispanic	8,128	9,063	9,297	9,595	10,009	11,151	11,980	12,656
Other or unknown	7,642	9,718	10,039	10,725	10,593	10,811	11,775	12,246
White, non-Hispanic	147,232	147,001	145,899	142,900	141,158	140,967	135,891	135,539
Students with temporary visas	28,153	28,434	29,481	30,714	32,636	35,897	39,629	43,829
Total, science and engineering	159,093	160,190	161,649	161,989	163,403	168,425	170,801	177,644
Total U.S. citizens and permanent residents	133,214	134,028	134,535	133,712	133,366	135,475	134,240	137,236
American Indian/Alaskan Native	689	763	770	795	810	811	870	879
Asian/Pacific Islander	9,319	9,530	9,982	10,330	10,829	11,527	10,899	11,662
Black, non-Hispanic	9,564	10,075	10,819	11,012	11,329	11,743	12,615	13,291
Hispanic	6,079	6,712	6,924	7,289	7,645	8,329	8,939	9,454
Other or unknown	5,493	7,120	7,353	7,793	7,840	8,126	8,945	9,272
White, non-Hispanic	102,070	99,828	98,687	96,493	94,913	94,939	91,972	92,678
Students with temporary visas	25,879	26,162	27,114	28,277	30,037	32,950	36,561	40,408
Sciences, total	141,043	142,177	143,395	143,269	144,415	148,538	149,989	155,417
Total U.S. citizens and permanent residents	120,008	121,051	121,700	121,181	120,985	123,094	122,008	124,722
American Indian/Alaskan Native	627	714	727	736	747	744	800	814
Asian/Pacific Islander	7,500	7,749	8,200	8,548	8,995	9,518	9,008	9,498
Black, non-Hispanic	8,747	9,175	9,875	10,096	10,450	10,767	11,581	12,308
Hispanic	5,499	6,100	6,255	6,650	6,958	7,627	8,200	8,613
Other or unknown	4,791	6,359	6,576	6,929	7,088	7,363	8,121	8,372
White, non-Hispanic	92,844	90,954	90,067	88,222	86,747	87,075	84,298	85,117
Students with temporary visas	21,035	21,126	21,695	22,088	23,430	25,444	27,981	30,695
Physical sciences	9,167	9,085	9,045	8,848	8,753	8,915	9,128	9,332
Total U.S. citizens and permanent residents	6,198	6,050	6,004	5,837	5,833	5,862	5,868	5,910
American Indian/Alaskan Native	18	19	18	24	23	29	21	27
Asian/Pacific Islander	670	621	648	594	610	636	602	591
Black, non-Hispanic	359	368	436	444	432	402	423	413
Hispanic	231	262	287	283	307	346	337	357
Other or unknown	236	298	244	312	291	284	320	364
White, non-Hispanic	4,684	4,482	4,371	4,180	4,170	4,165	4,165	4,158
Students with temporary visas	2,969	3,035	3,041	3,011	2,920	3,053	3,260	3,422
Earth, atmos., & ocean sci.	5,319	5,434	5,447	5,416	5,568	5,725	5,751	5,892
Total U.S. citizens and permanent residents	4,442	4,637	4,675	4,697	4,805	4,868	4,855	4,916
American Indian/Alaskan Native	23	21	29	35	40	31	28	33
Asian/Pacific Islander	155	159	160	164	186	192	172	173
Black, non-Hispanic	85	99	104	98	99	101	100	102
Hispanic	127	142	144	163	168	200	169	201
Other or unknown	132	171	185	198	247	210	188	194
White, non-Hispanic	3,920	4,045	4,053	4,039	4,065	4,134	4,198	4,213
Students with temporary visas	877	797	772	719	763	857	896	976
Mathematical sciences	6,531	6,258	6,219	5,868	5,988	6,043	5,781	6,277
Total U.S. citizens and permanent residents	4,842	4,602	4,557	4,169	4,205	3,982	3,670	3,941
American Indian/Alaskan Native	12	27	17	14	18	18	10	16
Asian/Pacific Islander	473	452	522	429	470	437	419	439
Black, non-Hispanic	330	304	343	310	274	270	275	271
Hispanic	128	152	159	173	178	177	150	169
Other or unknown	231	241	226	208	225	219	208	248
White, non-Hispanic	3,668	3,426	3,290	3,035	3,040	2,861	2,608	2,798
Students with temporary visas	1,689	1,656	1,662	1,699	1,783	2,061	2,111	2,336
Computer sciences	8,087	8,133	8,797	9,881	10,802	12,570	14,163	15,294
Total U.S. citizens and permanent residents	5,668	5,537	5,736	6,198	6,577	7,437	7,528	7,742
American Indian/Alaskan Native	8	15	14	17	24	24	30	29
Asian/Pacific Islander	1,357	1,337	1,432	1,648	1,920	2,322	2,100	2,092
Black, non-Hispanic	486	503	560	535	591	677	678	773
Hispanic	160	162	177	210	195	213	249	245
Other or unknown	388	437	513	645	649	667	822	845
White, non-Hispanic	3,269	3,083	3,040	3,143	3,198	3,534	3,649	3,758
Students with temporary visas	2,419	2,596	3,061	3,683	4,225	5,133	6,635	7,552

See explanatory information, if any, and SOURCE at end of table.

Table 15. Female graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 2 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Agricultural sciences	4,315	4,459	4,449	4,561	4,719	4,910	4,931	5,202
Total U.S. citizens and permanent residents	3,475	3,599	3,607	3,747	3,896	4,084	4,108	4,258
American Indian/Alaskan Native	17	30	26	28	25	22	22	22
Asian/Pacific Islander	110	129	140	138	150	167	138	146
Black, non-Hispanic	121	146	139	126	164	142	148	192
Hispanic	124	134	168	162	177	208	210	211
Other or unknown	108	142	101	158	133	110	179	209
White, non-Hispanic	2,995	3,018	3,033	3,135	3,247	3,435	3,411	3,478
Students with temporary visas	840	860	842	814	823	826	823	944
Biological sciences	28,137	28,851	28,771	28,617	29,079	29,673	29,918	31,096
Total U.S. citizens and permanent residents	22,583	23,389	23,493	23,473	23,606	24,215	24,070	24,749
American Indian/Alaskan Native	106	118	107	106	104	106	109	110
Asian/Pacific Islander	1,928	2,134	2,210	2,320	2,354	2,371	2,247	2,536
Black, non-Hispanic	1,041	1,192	1,287	1,386	1,388	1,463	1,490	1,564
Hispanic	881	974	1,001	1,091	1,132	1,219	1,226	1,331
Other or unknown	717	853	851	1,044	1,092	1,218	1,227	1,318
White, non-Hispanic	17,910	18,118	18,037	17,526	17,536	17,838	17,771	17,890
Students with temporary visas	5,554	5,462	5,278	5,144	5,473	5,458	5,848	6,347
Psychology	38,138	37,764	37,747	37,619	37,462	37,370	37,030	37,583
Total U.S. citizens and permanent residents	36,736	36,534	36,482	36,361	36,074	35,921	35,523	35,846
American Indian/Alaskan Native	220	237	248	223	224	215	259	253
Asian/Pacific Islander	1,148	1,182	1,292	1,399	1,468	1,507	1,543	1,626
Black, non-Hispanic	2,678	2,542	2,644	2,736	2,926	2,872	3,382	3,674
Hispanic	1,780	2,037	2,130	2,215	2,347	2,617	3,113	3,273
Other or unknown	1,560	2,373	2,415	2,380	2,402	2,582	2,689	2,463
White, non-Hispanic	29,350	28,163	27,753	27,408	26,707	26,128	24,537	24,557
Students with temporary visas	1,402	1,230	1,265	1,258	1,388	1,449	1,507	1,737
Social sciences	41,349	42,193	42,920	42,459	42,044	43,332	43,287	44,741
Total U.S. citizens and permanent residents	36,064	36,703	37,146	36,699	35,989	36,725	36,386	37,360
American Indian/Alaskan Native	223	247	268	289	289	299	321	324
Asian/Pacific Islander	1,659	1,735	1,796	1,856	1,837	1,886	1,787	1,895
Black, non-Hispanic	3,647	4,021	4,362	4,461	4,576	4,840	5,085	5,319
Hispanic	2,068	2,237	2,189	2,353	2,454	2,647	2,746	2,826
Other or unknown	1,419	1,844	2,041	1,984	2,049	2,073	2,488	2,731
White, non-Hispanic	27,048	26,619	26,490	25,756	24,784	24,980	23,959	24,265
Students with temporary visas	5,285	5,490	5,774	5,760	6,055	6,607	6,901	7,381
Engineering, total	18,050	18,013	18,254	18,720	18,988	19,887	20,812	22,227
Total U.S. citizens and permanent residents	13,206	12,977	12,835	12,531	12,381	12,381	12,232	12,514
American Indian/Alaskan Native	62	49	43	59	63	67	70	65
Asian/Pacific Islander	1,819	1,781	1,782	1,782	1,834	2,009	1,891	2,164
Black, non-Hispanic	817	900	944	916	879	976	1,034	983
Hispanic	580	612	669	639	687	702	739	841
Other or unknown	702	761	777	864	752	763	824	900
White, non-Hispanic	9,226	8,874	8,620	8,271	8,166	7,864	7,674	7,561
Students with temporary visas	4,844	5,036	5,419	6,189	6,607	7,506	8,580	9,713
Chemical engineering	1,529	1,567	1,651	1,720	1,727	1,733	1,881	1,829
Total U.S. citizens and permanent residents	1,054	1,045	1,064	1,076	1,059	1,020	1,067	998
American Indian/Alaskan Native	6	8	8	8	8	5	11	8
Asian/Pacific Islander	140	121	137	151	148	176	171	173
Black, non-Hispanic	79	90	97	87	80	79	78	89
Hispanic	51	69	70	37	65	54	69	72
Other or unknown	53	52	47	51	54	63	66	46
White, non-Hispanic	725	705	705	742	704	643	672	610
Students with temporary visas	475	522	587	644	668	713	814	831
Civil engineering	4,211	4,232	4,300	4,164	4,102	4,157	4,286	4,479
Total U.S. citizens and permanent residents	3,310	3,265	3,317	3,115	3,046	2,955	2,923	2,943
American Indian/Alaskan Native	17	10	10	17	12	13	10	14
Asian/Pacific Islander	342	365	351	290	313	316	246	282
Black, non-Hispanic	136	158	161	144	133	173	177	158
Hispanic	155	171	204	206	219	203	238	237
Other or unknown	130	160	183	146	163	152	128	155
White, non-Hispanic	2,530	2,401	2,408	2,312	2,206	2,098	2,124	2,097
Students with temporary visas	901	967	983	1,049	1,056	1,202	1,363	1,536

See explanatory information, if any, and SOURCE at end of table.

Table 15. Female graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 3 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Electrical engineering	4,102	4,088	4,122	4,438	4,747	4,973	5,351	6,030
Total U.S. citizens and permanent residents	2,686	2,570	2,464	2,440	2,461	2,339	2,281	2,402
American Indian/Alaskan Native	7	5	5	7	8	11	11	6
Asian/Pacific Islander	679	650	671	691	705	704	729	783
Black, non-Hispanic	191	187	167	193	193	200	202	191
Hispanic	125	113	121	121	120	138	99	142
Other or unknown	187	184	192	276	224	203	276	286
White, non-Hispanic	1,497	1,431	1,308	1,152	1,211	1,083	964	994
Students with temporary visas	1,416	1,518	1,658	1,998	2,286	2,634	3,070	3,628
Industrial engineering	2,857	2,823	2,769	2,656	2,452	2,659	2,734	2,808
Total U.S. citizens and permanent residents	2,298	2,306	2,219	2,079	1,869	2,003	1,923	1,891
American Indian/Alaskan Native	7	7	4	6	11	16	14	13
Asian/Pacific Islander	179	165	176	176	156	198	170	195
Black, non-Hispanic	205	228	241	219	208	232	256	242
Hispanic	103	106	118	115	117	135	140	167
Other or unknown	138	164	136	125	105	107	116	112
White, non-Hispanic	1,666	1,636	1,544	1,438	1,272	1,315	1,227	1,162
Students with temporary visas	559	517	550	577	583	656	811	917
Mechanical engineering	1,823	1,677	1,636	1,779	1,762	1,788	1,853	1,939
Total U.S. citizens and permanent residents	1,369	1,224	1,144	1,166	1,153	1,141	1,085	1,125
American Indian/Alaskan Native	10	7	7	8	5	8	9	9
Asian/Pacific Islander	177	181	163	143	138	179	146	180
Black, non-Hispanic	74	84	90	104	104	88	103	81
Hispanic	55	55	60	62	57	52	49	66
Other or unknown	99	79	58	87	58	65	73	66
White, non-Hispanic	954	818	766	762	791	749	705	723
Students with temporary visas	454	453	492	613	609	647	768	814
Other engineering	3,528	3,626	3,776	3,963	4,198	4,577	4,707	5,142
Total U.S. citizens and permanent residents	2,489	2,567	2,627	2,655	2,793	2,923	2,953	3,155
American Indian/Alaskan Native	15	12	9	13	19	14	15	15
Asian/Pacific Islander	302	299	284	331	374	436	429	551
Black, non-Hispanic	132	153	188	169	161	204	218	222
Hispanic	91	98	96	98	109	120	144	157
Other or unknown	95	122	161	179	148	173	165	235
White, non-Hispanic	1,854	1,883	1,889	1,865	1,982	1,976	1,982	1,975
Students with temporary visas	1,039	1,059	1,149	1,308	1,405	1,654	1,754	1,987
Total, health fields	56,951	60,145	60,770	60,722	61,205	62,225	60,838	61,200
Total U.S. citizens and permanent residents	54,677	57,873	58,403	58,285	58,606	59,278	57,770	57,779
American Indian/Alaskan Native	264	260	273	284	335	335	311	332
Asian/Pacific Islander	2,112	2,348	2,676	2,923	3,222	3,444	3,557	3,813
Black, non-Hispanic	2,941	3,143	3,183	3,433	3,687	3,964	4,112	4,597
Hispanic	2,049	2,351	2,373	2,306	2,364	2,822	3,041	3,202
Other or unknown	2,149	2,598	2,686	2,932	2,753	2,685	2,830	2,974
White, non-Hispanic	45,162	47,173	47,212	46,407	46,245	46,028	43,919	42,861
Students with temporary visas	2,274	2,272	2,367	2,437	2,599	2,947	3,068	3,421

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 16. Graduate students in science, engineering, and health fields in public institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	353,587	350,107	345,452	340,187	338,608	344,372	347,756	360,152
Total, science and engineering fields	300,420	294,652	288,086	282,575	280,557	285,007	289,312	301,325
Sciences, total	220,621	218,744	215,178	211,255	210,011	212,888	213,512	221,634
Physical sciences, total	25,145	24,538	23,655	22,748	22,559	22,544	22,514	22,901
Astronomy	591	556	525	471	509	511	542	538
Chemistry	14,441	14,407	14,186	13,847	13,769	13,607	13,559	13,646
Physics	9,618	9,114	8,561	8,041	7,842	7,860	7,871	8,222
Physical sciences, n.e.c.	495	461	383	389	439	566	542	495
Earth, atmos., & ocean sci., total	13,104	13,166	12,788	12,329	12,049	11,866	11,792	11,649
Atmospheric sciences	1,090	1,047	1,066	1,068	942	896	938	897
Geosciences	6,299	6,253	6,044	5,764	5,501	5,478	5,457	5,390
Oceanography	2,311	2,283	2,201	2,088	2,179	2,217	2,265	2,222
Earth, atmos., & ocean sci., n.e.c.	3,404	3,583	3,477	3,409	3,427	3,275	3,132	3,140
Mathematical sciences, total	15,198	14,248	13,871	12,725	12,520	12,355	12,282	13,197
Mathematics & applied mathematics	12,606	11,675	11,352	10,541	10,413	10,138	10,070	10,792
Statistics	2,592	2,573	2,519	2,184	2,107	2,217	2,212	2,405
Computer sciences	20,590	20,558	20,882	22,195	23,601	26,530	29,436	32,138
Agricultural sciences	11,680	11,897	11,482	11,389	11,354	11,518	11,178	11,316
Biological sciences, total	42,439	42,420	41,926	41,002	41,062	41,009	40,553	41,453
Anatomy	797	770	784	770	691	673	696	660
Biochemistry	3,914	3,891	3,730	3,610	3,633	3,585	3,513	
Biology	10,690	10,567	10,905	10,820	10,564	10,459	10,099	10,074
Biometry/epidemiology	1,732	1,724	1,777	1,734	2,165	2,216	2,198	2,332
Biophysics	415	472	459	419	417	416	443	549
Botany	2,626	2,469	2,367	2,258	2,189	2,119	2,083	2,095
Cell biology	2,293	2,397	2,414	2,406	2,566	2,703	2,864	2,999
Ecology	1,387	1,490	1,450	1,473	1,511	1,509	1,564	1,638
Entomology/parasitology	1,193	1,179	1,171	1,101	1,109	1,087	1,055	1,119
Genetics	1,083	1,077	1,119	1,144	1,075	1,108	1,057	1,128
Microbio., immunology, & virology	3,570	3,508	3,400	3,317	3,258	3,220	3,207	3,195
Nutrition	3,775	3,939	3,845	3,686	3,676	3,650	3,464	3,445
Pathology	1,079	1,056	1,059	1,063	1,074	1,053	1,013	1,053
Pharmacology	1,979	1,872	1,797	1,750	1,829	1,848	2,054	2,039
Physiology	1,521	1,548	1,439	1,373	1,341	1,324	1,189	1,134
Zoology	1,951	1,914	1,780	1,598	1,558	1,496	1,442	1,391
Biosciences, n.e.c.	2,434	2,547	2,430	2,480	2,406	2,543	2,612	3,089
Psychology, total	29,503	29,197	28,203	28,497	28,101	27,479	26,826	27,623
Psychology, general	12,363	11,688	11,179	11,560	11,260	10,681	10,322	10,483
Clinical psychology	4,070	4,056	3,919	4,051	3,900	3,910	3,860	3,853
Psychology, n.e.c.	13,070	13,453	13,105	12,886	12,941	12,888	12,644	13,287
Social sciences, total	62,962	62,720	62,371	60,370	58,765	59,587	58,931	61,357
Agricultural economics	2,174	2,205	2,031	1,973	1,928	1,949	2,019	2,099
Anthropology (cultural & social)	5,646	5,602	5,678	5,494	5,514	5,640	5,649	5,547
Economics (except agricultural)	8,598	8,355	7,953	7,253	6,896	6,923	7,020	7,412
Geography	4,168	4,077	4,013	3,994	4,018	3,925	3,723	3,974
History and philosophy of science	198	212	211	222	281	350	332	373
Linguistics	2,419	2,383	2,281	2,228	2,149	2,063	1,979	2,044
Political science	21,983	21,869	21,115	20,340	19,373	20,067	19,889	20,753
Sociology	7,243	7,271	7,220	7,210	7,066	6,842	6,655	6,815
Sociology/anthropology	796	749	737	779	693	616	610	633
Social sciences, n.e.c.	9,737	9,997	11,132	10,877	10,847	11,212	11,055	11,707
Engineering, total	79,799	75,908	72,908	71,320	70,546	72,119	75,800	79,691
Aerospace engineering	2,917	2,598	2,435	2,332	2,311	2,339	2,385	2,449
Agricultural engineering	1,006	981	959	893	880	888	845	839
Biomedical engineering	1,641	1,656	1,700	1,844	1,842	1,991	2,048	2,198
Chemical engineering	5,623	5,468	5,383	5,214	5,089	4,887	5,125	4,911
Civil engineering	14,948	14,534	14,091	13,200	12,651	12,695	13,008	13,210
Electrical engineering	21,913	20,610	19,489	20,131	20,225	21,104	23,197	25,127
Engineering science	1,368	1,294	1,252	1,122	1,069	1,110	1,000	1,096
Industrial/manufacturing eng.	9,506	8,902	8,346	7,779	7,682	7,967	8,603	9,112
Mechanical engineering	12,992	12,144	11,595	11,166	11,117	11,235	11,839	12,099
Metallurgical/materials eng.	3,675	3,465	3,320	3,280	3,227	3,108	3,147	3,453
Mining engineering	350	300	278	248	211	222	275	235
Nuclear engineering	1,062	975	826	751	715	716	672	691
Petroleum engineering	496	480	449	446	463	543	531	562
Engineering, n.e.c.	2,302	2,501	2,785	2,914	3,064	3,314	3,125	3,709

See explanatory information, if any, and SOURCE at end of table.

**Table 16. Graduate students in science, engineering, and health fields in public institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	53,167	55,455	57,366	57,612	58,051	59,365	58,444	58,827
Medical fields, total	9,499	9,810	9,825	9,791	10,194	10,632	10,426	10,964
Anesthesiology	214	205	295	285	325	303	362	379
Cardiology	0	0	0	10	10	34	26	25
Oncology/cancer research	125	125	117	123	139	145	141	146
Endocrinology	63	53	46	43	58	67	57	53
Gastroenterology	0	0	0	3	6	7	14	7
Hematology	2	1	3	3	1	5	6	6
Neurology	704	723	742	819	889	999	1,073	1,173
Obstetrics and gynecology	2	1	0	5	8	13	8	20
Ophthalmology	26	24	31	30	31	49	58	46
Otorhinolaryngology	2	0	0	2	0	3	6	4
Pediatrics	186	170	217	241	226	243	257	287
Preventive medicine/community health	6,950	7,255	7,131	7,000	7,343	7,534	7,048	7,224
Psychiatry	97	114	102	101	64	58	73	129
Pulmonary disease	0	0	0	0	0	1	1	1
Radiology	252	241	217	209	206	177	188	217
Surgery	115	168	161	168	118	118	139	122
Clinical medicine, n.e.c.	761	730	763	749	770	876	969	1,125
Other health fields, total	43,668	45,645	47,541	47,821	47,857	48,733	48,018	47,863
Dental sciences	1,006	1,000	1,080	1,170	1,204	1,199	1,213	1,239
Nursing	21,232	22,116	21,505	21,139	20,424	19,979	18,741	18,965
Pharmaceutical sciences	2,330	2,255	2,311	2,163	2,202	2,672	2,943	3,201
Speech pathology/audiology	9,423	9,918	10,778	11,063	10,887	11,342	11,317	10,915
Veterinary sciences	854	921	945	1,172	1,235	1,267	1,322	1,430
Health related, n.e.c.	8,823	9,435	10,922	11,114	11,905	12,274	12,482	12,113

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 17. Graduate students in science, engineering, and health fields in private institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	150,812	149,533	148,627	147,021	147,019	149,038	146,915	150,004
Total, science and engineering fields	130,694	127,786	127,062	125,022	124,252	126,250	125,371	128,167
Sciences, total	97,469	96,493	96,746	95,194	94,760	96,678	96,487	98,352
Physical sciences, total	9,321	8,861	8,678	8,357	8,016	8,147	7,949	8,087
Astronomy	382	356	349	307	311	321	346	378
Chemistry	5,362	5,163	5,148	4,927	4,713	4,809	4,629	4,654
Physics	3,544	3,311	3,167	3,106	2,967	3,009	2,965	3,042
Physical sciences, n.e.c.	33	31	14	17	25	8	9	13
Earth, atmos., & ocean sci., total	2,853	2,550	2,395	2,219	2,209	2,217	2,148	2,192
Atmospheric sciences	19	25	20	24	23	17	25	27
Geosciences	1,414	1,329	1,260	1,195	1,186	1,159	1,138	1,154
Oceanography	559	440	414	391	383	407	403	363
Earth, atmos., & ocean sci., n.e.c.	861	756	701	609	617	634	582	648
Mathematical sciences, total	4,375	4,256	4,137	3,994	3,965	3,902	3,364	3,466
Mathematics & applied mathematics	3,851	3,711	3,596	3,486	3,414	3,383	2,749	2,802
Statistics	524	545	541	508	551	519	615	664
Computer sciences	13,568	12,900	13,744	13,796	14,426	16,030	18,158	20,058
Agricultural sciences	562	525	492	463	490	470	506	595
Biological sciences, total	15,594	16,260	16,134	16,042	15,932	16,106	15,941	16,373
Anatomy	221	212	235	233	231	213	228	207
Biochemistry	1,701	1,671	1,545	1,492	1,515	1,516	1,450	1,404
Biology	3,518	3,713	3,706	3,826	3,713	3,530	3,311	3,281
Biometry/epidemiology	978	1,088	1,224	1,166	1,346	1,313	1,273	1,297
Biophysics	379	373	374	329	320	294	302	344
Botany	122	140	137	144	139	142	93	87
Cell biology	1,536	1,597	1,608	1,705	1,640	1,762	1,783	1,769
Ecology	179	190	165	146	144	178	180	210
Entomology/parasitology	70	62	63	60	59	58	49	51
Genetics	616	623	610	616	630	659	648	705
Microbio., immunology, & virology	1,524	1,518	1,512	1,488	1,515	1,595	1,608	1,603
Nutrition	1,016	1,132	1,073	918	810	858	966	984
Pathology	628	614	597	611	506	527	516	596
Pharmacology	860	838	866	847	901	909	905	1,013
Physiology	857	992	938	925	810	759	818	833
Zoology	77	92	72	71	64	62	39	57
Biosciences, n.e.c.	1,312	1,405	1,409	1,465	1,589	1,731	1,772	1,932
Psychology, total	25,051	24,444	24,919	24,629	24,456	24,385	23,878	23,175
Psychology, general	5,993	5,948	5,653	5,686	5,835	5,554	5,403	5,539
Clinical psychology	8,614	8,463	8,868	9,047	8,833	8,888	8,628	8,620
Psychology, n.e.c.	10,444	10,033	10,398	9,896	9,788	9,943	9,847	9,016
Social sciences, total	26,145	26,697	26,247	25,694	25,266	25,421	24,543	24,406
Agricultural economics	115	133	86	70	67	65	60	62
Anthropology (cultural & social)	2,019	2,091	2,095	2,066	2,063	1,993	1,984	1,944
Economics (except agricultural)	4,315	4,318	4,127	3,844	3,805	3,639	3,758	3,928
Geography	334	294	318	293	308	325	321	302
History and philosophy of science	189	189	198	221	227	207	200	198
Linguistics	860	811	875	840	786	736	695	700
Political science	12,334	12,429	12,137	11,743	11,455	11,314	11,290	11,097
Sociology	2,255	2,293	2,205	2,203	1,992	2,124	2,034	1,960
Sociology/anthropology	191	192	186	169	164	125	135	175
Social sciences, n.e.c.	3,533	3,947	4,020	4,245	4,399	4,893	4,066	4,040
Engineering, total	33,225	31,293	30,316	29,828	29,492	29,572	28,884	29,815
Aerospace engineering	798	745	773	751	826	1,010	1,022	1,036
Agricultural engineering	55	56	53	48	45	46	54	68
Biomedical engineering	1,109	1,076	1,032	1,003	1,063	1,130	1,193	1,395
Chemical engineering	2,016	1,984	2,025	2,074	2,004	1,996	1,968	2,002
Civil engineering	4,977	4,684	4,437	3,993	3,866	3,531	3,486	3,394
Electrical engineering	11,107	10,111	10,213	10,417	10,904	10,278	10,121	10,618
Engineering science	721	661	499	525	632	517	632	702
Industrial/manufacturing eng.	4,486	4,573	4,329	4,178	3,539	3,836	3,650	3,828
Mechanical engineering	4,769	4,219	3,914	3,879	3,579	3,721	3,618	3,732
Metallurgical/materials eng.	1,553	1,491	1,427	1,408	1,453	1,373	1,230	1,268
Mining engineering	74	73	93	100	93	106	12	5
Nuclear engineering	184	179	154	117	106	114	120	110
Petroleum engineering	128	130	113	115	108	99	96	118
Engineering, n.e.c.	1,248	1,311	1,254	1,220	1,274	1,815	1,682	1,539

See explanatory information, if any, and SOURCE at end of table.

**Table 17. Graduate students in science, engineering, and health fields in private institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	20,118	21,747	21,565	21,999	22,767	22,788	21,544	21,837
Medical fields, total	5,566	5,756	5,571	5,712	6,496	6,723	6,107	6,554
Anesthesiology	515	544	459	555	582	577	511	512
Cardiology	14	19	18	23	26	29	27	25
Oncology/cancer research	83	64	68	75	70	105	96	115
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology	768	848	911	898	936	908	909	963
Obstetrics and gynecology	2	5	4	13	5	3	8	8
Ophthalmology	6	6	2	3	7	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	3	0
Pediatrics	75	68	58	101	102	73	146	93
Preventive medicine/community health	3,530	3,631	3,467	3,460	4,176	4,456	3,822	3,948
Psychiatry	128	135	116	127	72	61	106	77
Pulmonary disease	0	0	0	0	0	5	6	7
Radiology	68	73	68	58	43	52	42	45
Surgery	4	6	6	3	4	4	8	8
Clinical medicine, n.e.c.	373	357	394	396	473	450	423	753
Other health fields, total	14,552	15,991	15,994	16,287	16,271	16,065	15,437	15,283
Dental sciences	292	338	308	321	314	268	217	255
Nursing	5,765	6,289	5,883	5,722	5,167	5,095	4,600	4,644
Pharmaceutical sciences	557	553	535	547	680	750	662	707
Speech pathology/audiology	1,933	2,064	2,079	2,149	2,311	2,258	2,338	2,278
Veterinary sciences	68	54	52	52	53	47	45	46
Health related, n.e.c.	5,937	6,693	7,137	7,496	7,746	7,647	7,575	7,353

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 18. Full-time graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	332,088	329,283	328,536	327,289	327,389	334,421	342,079	355,115
Total, science and engineering fields	292,975	287,164	284,033	280,664	278,941	283,911	292,020	304,476
Sciences, total	221,405	219,382	218,174	214,976	213,506	215,888	219,436	226,904
Physical sciences, total	30,049	28,879	27,931	26,882	26,391	26,635	26,552	27,129
Astronomy	953	871	854	768	787	808	823	860
Chemistry	17,104	16,736	16,479	15,992	15,777	15,959	15,707	16,012
Physics	11,766	11,052	10,400	9,923	9,661	9,660	9,811	10,023
Physical sciences, n.e.c.	226	220	198	199	166	208	211	234
Earth, atmos., & ocean sci., total	11,446	11,259	10,795	10,510	10,444	10,484	10,559	10,504
Atmospheric sciences	993	959	980	966	856	793	844	812
Geosciences	5,933	5,786	5,576	5,413	5,212	5,238	5,259	5,222
Oceanography	2,340	2,235	2,075	1,973	2,048	2,123	2,164	2,058
Earth, atmos., & ocean sci., n.e.c.	2,180	2,279	2,164	2,158	2,328	2,330	2,292	2,412
Mathematical sciences, total	14,226	13,410	12,966	12,144	11,751	11,796	11,732	12,498
Mathematics & applied mathematics	11,948	11,121	10,719	10,064	9,722	9,675	9,502	10,055
Statistics	2,278	2,289	2,247	2,080	2,029	2,121	2,230	2,443
Computer sciences	16,701	16,510	17,195	18,335	19,972	22,708	26,644	30,098
Agricultural sciences	9,479	9,605	9,297	9,096	8,986	9,156	9,113	9,202
Biological sciences, total	47,961	48,285	47,684	46,923	46,992	47,107	47,026	48,351
Anatomy	922	904	950	942	868	844	884	806
Biochemistry	5,205	5,212	4,977	4,811	4,881	4,800	4,712	4,642
Biology	10,132	9,985	10,050	10,318	10,031	9,904	9,680	9,791
Biometry/epidemiology	2,056	2,093	2,162	2,005	2,583	2,581	2,541	2,665
Biophysics	770	800	807	728	707	681	717	853
Botany	2,349	2,149	2,130	2,051	1,993	1,950	1,893	1,906
Cell biology	3,657	3,798	3,796	3,793	3,884	4,102	4,251	4,398
Ecology	1,203	1,304	1,243	1,172	1,202	1,240	1,238	1,374
Entomology/parasitology	1,066	1,041	1,027	995	1,000	971	979	989
Genetics	1,602	1,619	1,653	1,666	1,621	1,667	1,642	1,735
Microbio., immunology, & virology	4,660	4,634	4,490	4,373	4,377	4,483	4,502	4,500
Nutrition	3,248	3,460	3,514	3,320	3,208	3,187	3,144	3,269
Pathology	1,389	1,382	1,355	1,420	1,339	1,364	1,290	1,362
Pharmacology	2,681	2,539	2,510	2,461	2,562	2,579	2,623	2,658
Physiology	2,221	2,376	2,217	2,102	1,990	1,890	1,868	1,827
Zoology	1,653	1,684	1,569	1,459	1,370	1,326	1,272	1,268
Biosciences, n.e.c.	3,147	3,305	3,234	3,307	3,376	3,538	3,790	4,308
Psychology, total	35,288	35,222	35,412	35,551	35,148	34,705	35,081	34,533
Psychology, general	12,648	12,348	11,810	12,346	12,173	11,545	11,722	11,315
Clinical psychology	8,899	9,055	9,601	9,921	9,812	9,941	9,725	9,682
Psychology, n.e.c.	13,741	13,819	14,001	13,284	13,163	13,219	13,634	13,536
Social sciences, total	56,255	56,212	56,894	55,535	53,822	53,297	52,729	54,589
Agricultural economics	1,936	1,977	1,784	1,718	1,670	1,685	1,780	1,869
Anthropology (cultural & social)	5,837	5,792	6,003	5,799	5,734	5,814	5,624	5,577
Economics (except agricultural)	9,945	9,743	9,548	8,813	8,564	8,390	8,652	9,162
Geography	3,119	2,962	2,959	2,967	2,908	2,786	2,663	2,904
History and philosophy of science	336	340	348	377	404	429	412	400
Linguistics	2,518	2,486	2,530	2,420	2,286	2,182	2,104	2,177
Political science	17,918	17,630	17,669	17,071	16,316	16,178	16,099	16,672
Sociology	6,720	6,692	6,610	6,717	6,460	6,278	6,137	6,118
Sociology/anthropology	693	663	620	666	615	518	524	578
Social sciences, n.e.c.	7,233	7,927	8,823	8,987	8,865	9,037	8,734	9,132
Engineering, total	71,570	67,782	65,859	65,688	65,435	68,023	72,584	77,572
Aerospace engineering	3,000	2,693	2,576	2,529	2,565	2,645	2,759	2,855
Agricultural engineering	879	859	799	748	756	767	706	758
Biomedical engineering	2,292	2,315	2,316	2,462	2,513	2,742	2,874	3,123
Chemical engineering	6,136	5,985	5,939	5,821	5,630	5,593	5,865	5,829
Civil engineering	12,641	12,248	11,791	11,406	11,154	11,237	11,765	12,099
Electrical engineering	19,385	18,167	17,967	18,854	19,470	20,219	22,821	25,112
Engineering science	1,347	1,243	1,057	1,018	1,114	1,035	1,098	1,218
Industrial/manufacturing eng.	5,960	5,389	5,166	5,116	4,894	5,500	6,089	6,534
Mechanical engineering	11,875	11,128	10,690	10,432	10,073	10,331	10,929	11,436
Metallurgical/materials eng.	4,143	3,912	3,724	3,694	3,736	3,563	3,601	3,977
Mining engineering	297	270	275	269	226	258	191	194
Nuclear engineering	997	883	771	708	662	641	660	651
Petroleum engineering	522	460	442	461	481	535	519	515
Engineering, n.e.c.	2,096	2,230	2,346	2,170	2,161	2,957	2,707	3,271

See explanatory information, if any, and SOURCE at end of table.

**Table 18. Full-time graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	39,113	42,119	44,503	46,625	48,448	50,510	50,059	50,639
Medical fields, total	9,230	9,784	9,809	10,217	10,946	11,534	11,037	11,849
Anesthesiology	533	548	673	781	708	657	677	760
Cardiology	14	19	18	32	36	62	53	50
Oncology/cancer research	200	180	182	193	206	245	223	246
Endocrinology	62	51	46	41	58	66	55	51
Gastroenterology	0	0	0	3	6	7	14	7
Hematology	2	1	3	3	1	3	6	6
Neurology	1,424	1,511	1,599	1,650	1,773	1,853	1,922	2,072
Obstetrics and gynecology	4	6	4	18	10	9	13	18
Ophthalmology	24	24	19	23	22	31	41	33
Otorhinolaryngology	2	0	0	2	0	3	8	4
Pediatrics	225	205	220	275	260	276	351	316
Preventive medicine/community health	5,432	5,926	5,815	5,878	6,611	6,968	6,272	6,549
Psychiatry	100	111	78	94	47	55	84	64
Pulmonary disease	0	0	0	0	0	6	7	8
Radiology	256	226	191	199	162	170	153	171
Surgery	107	160	157	157	109	113	128	97
Clinical medicine, n.e.c.	845	816	804	868	937	1,010	1,030	1,397
Other health fields, total	29,883	32,335	34,694	36,408	37,502	38,976	39,022	38,790
Dental sciences	1,078	1,150	1,178	1,290	1,284	1,226	1,301	1,322
Nursing	7,914	8,561	8,653	9,035	9,053	9,469	8,950	9,120
Pharmaceutical sciences	2,175	2,138	2,215	2,225	2,258	2,609	2,764	2,946
Speech pathology/audiology	8,646	8,991	9,557	9,811	10,008	10,432	10,428	10,096
Veterinary sciences	741	772	783	1,028	1,048	1,052	1,154	1,244
Health related, n.e.c.	9,329	10,723	12,308	13,019	13,851	14,188	14,425	14,062

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 19. Male full-time graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	197,425	191,200	187,116	183,392	180,993	182,936	186,756	193,787
Total, science and engineering fields	186,622	179,769	174,688	170,166	167,319	169,061	173,256	180,129
Sciences, total	126,630	123,489	120,656	116,986	114,711	114,561	115,554	118,748
Physical sciences, total	22,281	21,222	20,395	19,454	19,034	19,065	18,791	19,047
Astronomy	732	657	630	564	566	590	573	607
Chemistry	11,309	11,004	10,818	10,384	10,278	10,315	9,958	10,096
Physics	10,093	9,431	8,839	8,386	8,086	8,024	8,118	8,197
Physical sciences, n.e.c.	147	130	108	120	104	136	142	147
Earth, atmos., & ocean sci., total	7,659	7,379	6,941	6,650	6,374	6,171	6,121	5,936
Atmospheric sciences	775	742	773	729	641	567	599	539
Geosciences	4,166	3,995	3,778	3,611	3,388	3,312	3,268	3,183
Oceanography	1,480	1,363	1,236	1,152	1,129	1,122	1,109	1,042
Earth, atmos., & ocean sci., n.e.c.	1,238	1,279	1,154	1,158	1,216	1,170	1,145	1,172
Mathematical sciences, total	9,810	9,213	8,797	8,171	7,797	7,662	7,661	8,110
Mathematics & applied mathematics	8,354	7,792	7,464	6,920	6,601	6,474	6,446	6,836
Statistics	1,456	1,421	1,333	1,251	1,196	1,188	1,215	1,274
Computer sciences	13,152	12,860	13,102	13,536	14,520	16,327	19,158	21,777
Agricultural sciences	6,151	6,142	5,839	5,584	5,385	5,362	5,168	5,082
Biological sciences, total	25,444	25,256	24,686	23,969	23,609	23,200	22,740	22,862
Anatomy	478	481	523	507	474	451	460	422
Biochemistry	3,008	2,956	2,829	2,765	2,780	2,692	2,617	2,546
Biology	5,501	5,310	5,311	5,305	5,097	4,961	4,800	4,669
Biometry/epidemiology	882	872	884	784	1,015	953	914	930
Biophysics	554	568	567	517	509	479	500	599
Botany	1,354	1,202	1,164	1,084	1,025	1,002	937	963
Cell biology	1,978	2,051	2,026	2,060	2,044	2,068	2,121	2,197
Ecology	641	705	662	606	607	595	585	647
Entomology/parasitology	710	698	680	636	645	619	583	571
Genetics	748	789	799	774	710	730	712	748
Microbio., immunology, & virology	2,416	2,399	2,299	2,220	2,218	2,221	2,239	2,154
Nutrition	990	1,018	1,018	879	852	802	786	779
Pathology	773	751	704	727	666	669	588	617
Pharmacology	1,403	1,312	1,288	1,293	1,317	1,316	1,307	1,272
Physiology	1,319	1,394	1,314	1,243	1,182	1,087	1,054	986
Zoology	955	987	894	828	749	739	691	666
Biosciences, n.e.c.	1,734	1,763	1,724	1,741	1,719	1,816	1,846	2,096
Psychology, total	11,131	10,903	10,775	10,833	10,509	10,082	9,895	9,321
Psychology, general	4,263	4,071	3,800	3,966	3,891	3,537	3,583	3,307
Clinical psychology	2,664	2,656	2,823	2,944	2,812	2,795	2,557	2,447
Psychology, n.e.c.	4,204	4,176	4,152	3,923	3,806	3,750	3,755	3,567
Social sciences, total	31,002	30,514	30,121	28,789	27,483	26,692	26,020	26,613
Agricultural economics	1,302	1,314	1,195	1,135	1,103	1,091	1,100	1,143
Anthropology (cultural & social)	2,384	2,434	2,435	2,368	2,292	2,295	2,188	2,209
Economics (except agricultural)	7,091	6,844	6,640	6,068	5,844	5,655	5,703	5,957
Geography	2,028	1,869	1,878	1,828	1,762	1,636	1,584	1,681
History and philosophy of science	211	222	222	244	257	267	239	226
Linguistics	997	981	943	844	781	782	754	769
Political science	10,226	9,889	9,755	9,279	8,833	8,517	8,303	8,296
Sociology	2,715	2,719	2,689	2,670	2,467	2,312	2,239	2,184
Sociology/anthropology	278	269	258	263	241	180	200	223
Social sciences, n.e.c.	3,770	3,973	4,106	4,090	3,903	3,957	3,710	3,925
Engineering, total	59,992	56,280	54,032	53,180	52,608	54,500	57,702	61,381
Aerospace engineering	2,722	2,417	2,293	2,226	2,251	2,320	2,385	2,469
Agricultural engineering	704	679	619	560	545	546	476	511
Biomedical engineering	1,703	1,689	1,678	1,733	1,748	1,840	1,921	2,041
Chemical engineering	4,940	4,756	4,615	4,451	4,233	4,197	4,316	4,289
Civil engineering	9,855	9,431	8,937	8,495	8,213	8,192	8,457	8,680
Electrical engineering	16,996	15,727	15,427	16,043	16,416	16,962	19,067	20,771
Engineering science	1,145	1,061	883	843	892	838	879	961
Industrial/manufacturing eng.	4,651	4,229	4,069	4,009	3,810	4,364	4,746	5,105
Mechanical engineering	10,658	9,993	9,500	9,143	8,840	9,069	9,576	9,998
Metallurgical/materials eng.	3,289	3,082	2,893	2,819	2,829	2,715	2,751	2,988
Mining engineering	262	237	227	218	181	215	156	163
Nuclear engineering	880	776	649	586	551	530	535	523
Petroleum engineering	473	408	393	392	433	462	447	437
Engineering, n.e.c.	1,714	1,795	1,849	1,662	1,666	2,250	1,990	2,445

See explanatory information, if any, and SOURCE at end of table.

Table 19. Male full-time graduate students in science, engineering, and health fields in all institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	10,803	11,431	12,428	13,226	13,674	13,875	13,500	13,658
Medical fields, total	4,148	4,232	4,378	4,590	4,762	4,825	4,519	4,818
Anesthesiology	163	174	242	340	307	303	337	343
Cardiology	10	14	13	25	28	37	38	31
Oncology/cancer research	106	94	94	86	97	111	104	112
Endocrinology	25	20	24	23	33	35	27	24
Gastroenterology	0	0	0	1	6	2	8	1
Hematology	2	0	0	0	0	0	4	4
Neurology	869	869	926	952	1,027	1,060	1,063	1,097
Obstetrics and gynecology	2	4	3	9	6	1	7	9
Ophthalmology	12	11	7	8	6	9	18	19
Otorhinolaryngology	0	0	0	2	0	3	3	2
Pediatrics	37	35	45	52	49	52	85	50
Preventive medicine/community health	2,153	2,252	2,296	2,319	2,464	2,432	2,089	2,164
Psychiatry	34	30	37	29	12	16	24	28
Pulmonary disease	0	0	0	0	0	4	5	3
Radiology	192	167	133	145	118	126	105	113
Surgery	54	78	77	86	51	61	65	69
Clinical medicine, n.e.c.	489	484	481	513	558	573	537	749
Other health fields, total	6,655	7,199	8,050	8,636	8,912	9,050	8,981	8,840
Dental sciences	740	761	759	797	805	768	799	822
Nursing	609	707	786	899	990	1,103	1,087	1,125
Pharmaceutical sciences	1,216	1,186	1,217	1,164	1,182	1,305	1,370	1,442
Speech pathology/audiology	686	693	742	781	801	835	715	725
Veterinary sciences	396	398	410	505	484	442	508	508
Health related, n.e.c.	3,008	3,454	4,136	4,490	4,650	4,597	4,502	4,218

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 20. Female full-time graduate students in science, engineering, and health fields
in all institutions, by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	134,663	138,083	141,420	143,897	146,396	151,485	155,323	161,328
Total, science and engineering fields	106,353	107,395	109,345	110,498	111,622	114,850	118,764	124,347
Sciences, total	94,775	95,893	97,518	97,990	98,795	101,327	103,882	108,156
Physical sciences, total	7,768	7,657	7,536	7,428	7,357	7,570	7,761	8,082
Astronomy	221	214	224	204	221	218	250	253
Chemistry	5,795	5,732	5,661	5,608	5,499	5,644	5,749	5,916
Physics	1,673	1,621	1,561	1,537	1,575	1,636	1,693	1,826
Physical sciences, n.e.c.	79	90	90	79	62	72	69	87
Earth, atmos., & ocean sci., total	3,787	3,880	3,854	3,860	4,070	4,313	4,438	4,568
Atmospheric sciences	218	217	207	237	215	226	245	273
Geosciences	1,767	1,791	1,798	1,802	1,824	1,926	1,991	2,039
Oceanography	860	872	839	821	919	1,001	1,055	1,016
Earth, atmos., & ocean sci., n.e.c.	942	1,000	1,010	1,000	1,112	1,160	1,147	1,240
Mathematical sciences, total	4,416	4,197	4,169	3,973	3,954	4,134	4,071	4,388
Mathematics & applied mathematics	3,594	3,329	3,255	3,144	3,121	3,201	3,056	3,219
Statistics	822	868	914	829	833	933	1,015	1,169
Computer sciences	3,549	3,650	4,093	4,799	5,452	6,381	7,486	8,321
Agricultural sciences	3,328	3,463	3,458	3,512	3,601	3,794	3,945	4,120
Biological sciences, total	22,517	23,029	22,998	22,954	23,383	23,907	24,286	25,489
Anatomy	444	423	427	435	394	393	424	384
Biochemistry	2,197	2,256	2,148	2,046	2,101	2,108	2,095	2,096
Biology	4,631	4,675	4,739	5,013	4,934	4,943	4,880	5,122
Biometry/epidemiology	1,174	1,221	1,278	1,221	1,568	1,628	1,627	1,735
Biophysics	216	232	240	211	198	202	217	254
Botany	995	947	966	967	968	948	956	943
Cell biology	1,679	1,747	1,770	1,733	1,840	2,034	2,130	2,201
Ecology	562	599	581	566	595	645	653	727
Entomology/parasitology	356	343	347	359	355	352	396	418
Genetics	854	830	854	892	911	937	930	987
Microbio., immunology, & virology	2,244	2,235	2,191	2,153	2,159	2,262	2,263	2,346
Nutrition	2,258	2,442	2,496	2,441	2,356	2,385	2,358	2,490
Pathology	616	631	651	693	673	695	702	745
Pharmacology	1,278	1,227	1,222	1,168	1,245	1,263	1,316	1,386
Physiology	902	982	903	859	808	803	814	841
Zoology	698	697	675	631	621	587	581	602
Biosciences, n.e.c.	1,413	1,542	1,510	1,566	1,657	1,722	1,944	2,212
Psychology, total	24,157	24,319	24,637	24,718	24,639	24,623	25,186	25,212
Psychology, general	8,385	8,277	8,010	8,380	8,282	8,008	8,139	8,008
Clinical psychology	6,235	6,399	6,778	6,977	7,000	7,146	7,168	7,235
Psychology, n.e.c.	9,537	9,643	9,849	9,361	9,357	9,469	9,879	9,969
Social sciences, total	25,253	25,698	26,773	26,746	26,339	26,605	26,709	27,976
Agricultural economics	634	663	589	583	567	594	680	726
Anthropology (cultural & social)	3,453	3,358	3,568	3,431	3,442	3,519	3,436	3,368
Economics (except agricultural)	2,854	2,899	2,908	2,745	2,720	2,735	2,949	3,205
Geography	1,091	1,093	1,081	1,139	1,146	1,150	1,079	1,223
History and philosophy of science	125	118	126	133	147	162	173	174
Linguistics	1,521	1,505	1,587	1,576	1,505	1,400	1,350	1,408
Political science	7,692	7,741	7,914	7,792	7,483	7,661	7,796	8,376
Sociology	4,005	3,973	3,921	4,047	3,993	3,966	3,898	3,934
Sociology/anthropology	415	394	362	403	374	338	324	355
Social sciences, n.e.c.	3,463	3,954	4,717	4,897	4,962	5,080	5,024	5,207
Engineering, total	11,578	11,502	11,827	12,508	12,827	13,523	14,882	16,191
Aerospace engineering	278	276	283	303	314	325	374	386
Agricultural engineering	175	180	180	188	211	221	230	247
Biomedical engineering	589	626	638	729	765	902	953	1,082
Chemical engineering	1,196	1,229	1,324	1,370	1,397	1,396	1,549	1,540
Civil engineering	2,786	2,817	2,854	2,911	2,941	3,045	3,308	3,419
Electrical engineering	2,389	2,440	2,540	2,811	3,054	3,257	3,754	4,341
Engineering science	202	182	174	175	222	197	219	257
Industrial/manufacturing eng.	1,309	1,160	1,097	1,107	1,084	1,136	1,343	1,429
Mechanical engineering	1,217	1,135	1,190	1,289	1,233	1,262	1,353	1,438
Metallurgical/materials eng.	854	830	831	875	907	848	850	989
Mining engineering	35	33	48	51	45	43	35	31
Nuclear engineering	117	107	122	122	111	111	125	128
Petroleum engineering	49	52	49	69	48	73	72	78
Engineering, n.e.c.	382	435	497	508	495	707	717	826

See explanatory information, if any, and SOURCE at end of table.

**Table 20. Female full-time graduate students in science, engineering, and health fields
in all institutions, by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	28,310	30,688	32,075	33,399	34,774	36,635	36,559	36,981
Medical fields, total	5,082	5,552	5,431	5,627	6,184	6,709	6,518	7,031
Anesthesiology	370	374	431	441	401	354	340	417
Cardiology	4	5	5	7	8	25	15	19
Oncology/cancer research	94	86	88	107	109	134	119	134
Endocrinology	37	31	22	18	25	31	28	27
Gastroenterology	0	0	0	2	0	5	6	6
Hematology	0	1	3	3	1	3	2	2
Neurology	555	642	673	698	746	793	859	975
Obstetrics and gynecology	2	2	1	9	4	8	6	9
Ophthalmology	12	13	12	15	16	22	23	14
Otorhinolaryngology	2	0	0	0	0	0	5	2
Pediatrics	188	170	175	223	211	224	266	266
Preventive medicine/community health	3,279	3,674	3,519	3,559	4,147	4,536	4,183	4,385
Psychiatry	66	81	41	65	35	39	60	36
Pulmonary disease	0	0	0	0	0	2	2	5
Radiology	64	59	58	54	44	44	48	58
Surgery	53	82	80	71	58	52	63	28
Clinical medicine, n.e.c.	356	332	323	355	379	437	493	648
Other health fields, total	23,228	25,136	26,644	27,772	28,590	29,926	30,041	29,950
Dental sciences	338	389	419	493	479	458	502	500
Nursing	7,305	7,854	7,867	8,136	8,063	8,366	7,863	7,995
Pharmaceutical sciences	959	952	998	1,061	1,076	1,304	1,394	1,504
Speech pathology/audiology	7,960	8,298	8,815	9,030	9,207	9,597	9,713	9,371
Veterinary sciences	345	374	373	523	564	610	646	736
Health related, n.e.c.	6,321	7,269	8,172	8,529	9,201	9,591	9,923	9,844

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 21. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 1 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	332,088	329,283	328,536	327,289	327,389	334,421	342,079	355,115
Total U.S. citizens and permanent residents	242,265	242,572	241,160	238,582	236,368	236,266	232,526	235,288
American Indian/Alaskan Native	1,137	1,254	1,306	1,361	1,339	1,292	1,365	1,420
Asian/Pacific Islander	19,177	19,079	19,496	20,049	20,941	21,638	20,483	22,019
Black, non-Hispanic	11,965	12,503	12,989	13,567	13,782	13,973	15,060	15,448
Hispanic	9,877	11,041	11,306	11,545	11,955	12,814	13,636	14,328
Other or unknown	8,762	10,759	10,328	11,346	11,136	10,940	12,909	14,070
White, non-Hispanic	191,347	187,936	185,735	180,714	177,215	175,609	169,073	168,003
Students with temporary visas	89,823	86,711	87,376	88,707	91,021	98,155	109,553	119,827
Total, science and engineering	292,975	287,164	284,033	280,664	278,941	283,911	292,020	304,476
Total U.S. citizens and permanent residents	206,805	204,107	200,669	195,969	191,943	190,117	186,982	189,706
American Indian/Alaskan Native	959	1,055	1,086	1,123	1,098	1,028	1,103	1,138
Asian/Pacific Islander	17,163	16,769	16,800	17,046	17,563	18,076	16,856	18,131
Black, non-Hispanic	10,345	10,668	10,983	11,401	11,299	11,223	12,115	12,164
Hispanic	8,181	9,080	9,274	9,552	9,895	10,292	10,835	11,400
Other or unknown	7,413	9,077	8,738	9,396	9,357	9,131	10,849	11,904
White, non-Hispanic	162,744	157,458	153,788	147,451	142,731	140,367	135,224	134,969
Students with temporary visas	86,170	83,057	83,364	84,695	86,998	93,794	105,038	114,770
Sciences, total	221,405	219,382	218,174	214,976	213,506	215,888	219,436	226,904
Total U.S. citizens and permanent residents	165,653	165,515	164,193	161,092	158,557	157,776	155,091	157,148
American Indian/Alaskan Native	825	920	946	983	962	907	992	1,009
Asian/Pacific Islander	11,434	11,623	11,985	12,326	12,759	13,088	12,047	12,888
Black, non-Hispanic	8,642	8,977	9,318	9,727	9,721	9,617	10,400	10,498
Hispanic	6,562	7,458	7,617	7,963	8,251	8,676	9,123	9,588
Other or unknown	5,510	6,867	6,713	7,393	7,588	7,535	8,795	9,811
White, non-Hispanic	132,680	129,670	127,614	122,700	119,276	117,953	113,734	113,354
Students with temporary visas	55,752	53,867	53,981	53,884	54,949	58,112	64,345	69,756
Physical sciences	30,049	28,879	27,931	26,882	26,391	26,635	26,552	27,129
Total U.S. citizens and permanent residents	19,136	18,403	17,632	16,805	16,468	16,300	15,732	15,879
American Indian/Alaskan Native	60	66	55	58	57	62	65	67
Asian/Pacific Islander	1,600	1,462	1,422	1,345	1,442	1,400	1,317	1,352
Black, non-Hispanic	709	729	769	741	728	700	691	687
Hispanic	575	585	603	648	680	728	683	731
Other or unknown	536	754	612	719	706	628	707	870
White, non-Hispanic	15,656	14,807	14,171	13,294	12,855	12,782	12,269	12,172
Students with temporary visas	10,913	10,476	10,299	10,077	9,923	10,335	10,820	11,250
Earth, atmos., & ocean sci.	11,446	11,259	10,795	10,510	10,444	10,484	10,559	10,504
Total U.S. citizens and permanent residents	8,586	8,673	8,399	8,289	8,258	8,268	8,156	8,053
American Indian/Alaskan Native	38	40	42	46	57	42	46	53
Asian/Pacific Islander	325	317	291	288	304	292	272	277
Black, non-Hispanic	129	135	128	137	134	137	158	140
Hispanic	239	259	259	272	253	304	267	297
Other or unknown	192	279	257	315	362	330	298	319
White, non-Hispanic	7,663	7,643	7,422	7,231	7,148	7,163	7,115	6,967
Students with temporary visas	2,860	2,586	2,396	2,221	2,186	2,216	2,403	2,451
Mathematical sciences	14,226	13,410	12,966	12,144	11,751	11,796	11,732	12,498
Total U.S. citizens and permanent residents	8,876	8,291	7,885	7,262	7,061	6,588	6,350	6,700
American Indian/Alaskan Native	26	41	31	32	22	20	14	20
Asian/Pacific Islander	802	738	755	693	771	626	599	637
Black, non-Hispanic	412	423	422	386	355	342	344	361
Hispanic	213	234	216	242	260	274	273	301
Other or unknown	430	412	323	337	367	335	396	422
White, non-Hispanic	6,993	6,443	6,138	5,572	5,286	4,991	4,724	4,959
Students with temporary visas	5,350	5,119	5,081	4,882	4,690	5,208	5,382	5,798
Computer sciences	16,701	16,510	17,195	18,335	19,972	22,708	26,644	30,098
Total U.S. citizens and permanent residents	8,757	8,627	8,400	8,578	9,042	9,960	9,778	10,374
American Indian/Alaskan Native	11	23	21	22	47	33	39	42
Asian/Pacific Islander	1,697	1,646	1,732	1,964	2,299	2,869	2,364	2,528
Black, non-Hispanic	465	485	475	494	476	540	609	658
Hispanic	216	257	237	242	266	296	286	305
Other or unknown	414	469	480	624	568	605	773	837
White, non-Hispanic	5,954	5,747	5,455	5,232	5,386	5,617	5,707	6,004
Students with temporary visas	7,944	7,883	8,795	9,757	10,930	12,748	16,866	19,724

See explanatory information, if any, and SOURCE at end of table.

Table 21. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 2 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Agricultural sciences	9,479	9,605	9,297	9,096	8,986	9,156	9,113	9,202
Total U.S. citizens and permanent residents	6,685	6,869	6,740	6,745	6,760	7,011	7,050	6,973
American Indian/Alaskan Native	28	46	37	47	57	50	41	41
Asian/Pacific Islander	214	216	221	237	240	245	193	207
Black, non-Hispanic	162	227	194	175	208	202	218	241
Hispanic	218	221	281	297	290	312	338	305
Other or unknown	150	225	180	262	210	212	301	350
White, non-Hispanic	5,913	5,934	5,827	5,727	5,755	5,990	5,959	5,829
Students with temporary visas	2,794	2,736	2,557	2,351	2,226	2,145	2,063	2,229
Biological sciences	47,961	48,285	47,684	46,923	46,992	47,107	47,026	48,351
Total U.S. citizens and permanent residents	36,199	37,167	37,197	36,704	36,539	36,871	36,178	36,912
American Indian/Alaskan Native	141	160	158	165	161	142	159	176
Asian/Pacific Islander	3,413	3,757	3,870	3,824	3,821	3,866	3,630	4,102
Black, non-Hispanic	1,372	1,451	1,513	1,727	1,651	1,700	1,745	1,839
Hispanic	1,343	1,479	1,469	1,615	1,659	1,758	1,731	1,892
Other or unknown	921	1,212	1,188	1,386	1,529	1,754	1,834	1,970
White, non-Hispanic	29,009	29,108	28,999	27,987	27,718	27,651	27,079	26,933
Students with temporary visas	11,762	11,118	10,487	10,219	10,453	10,236	10,848	11,439
Psychology	35,288	35,222	35,412	35,551	35,148	34,705	35,081	34,533
Total U.S. citizens and permanent residents	33,430	33,574	33,789	33,881	33,410	32,968	33,225	32,520
American Indian/Alaskan Native	234	255	270	263	222	222	273	228
Asian/Pacific Islander	1,160	1,168	1,320	1,438	1,464	1,529	1,580	1,581
Black, non-Hispanic	2,046	2,028	2,084	2,221	2,417	2,211	2,600	2,565
Hispanic	1,505	1,944	2,049	2,096	2,305	2,458	2,949	2,994
Other or unknown	1,347	1,515	1,505	1,582	1,558	1,678	1,840	2,042
White, non-Hispanic	27,138	26,664	26,561	26,281	25,444	24,870	23,983	23,110
Students with temporary visas	1,858	1,648	1,623	1,670	1,738	1,737	1,856	2,013
Social sciences	56,255	56,212	56,894	55,535	53,822	53,297	52,729	54,589
Total U.S. citizens and permanent residents	43,984	43,911	44,151	42,828	41,019	39,810	38,622	39,737
American Indian/Alaskan Native	287	289	332	350	339	336	355	382
Asian/Pacific Islander	2,223	2,319	2,374	2,537	2,418	2,261	2,092	2,204
Black, non-Hispanic	3,347	3,499	3,733	3,846	3,752	3,785	4,035	4,007
Hispanic	2,253	2,479	2,503	2,551	2,538	2,546	2,596	2,763
Other or unknown	1,520	2,001	2,168	2,168	2,288	1,993	2,646	3,001
White, non-Hispanic	34,354	33,324	33,041	31,376	29,684	28,889	26,898	27,380
Students with temporary visas	12,271	12,301	12,743	12,707	12,803	13,487	14,107	14,852
Engineering, total	71,570	67,782	65,859	65,688	65,435	68,023	72,584	77,572
Total U.S. citizens and permanent residents	41,152	38,592	36,476	34,877	33,386	32,341	31,891	32,558
American Indian/Alaskan Native	134	135	140	140	136	121	111	129
Asian/Pacific Islander	5,729	5,146	4,815	4,720	4,804	4,988	4,809	5,243
Black, non-Hispanic	1,703	1,691	1,665	1,674	1,578	1,606	1,715	1,666
Hispanic	1,619	1,622	1,657	1,589	1,644	1,616	1,712	1,812
Other or unknown	1,903	2,210	2,025	2,003	1,769	1,596	2,054	2,093
White, non-Hispanic	30,064	27,788	26,174	24,751	23,455	22,414	21,490	21,615
Students with temporary visas	30,418	29,190	29,383	30,811	32,049	35,682	40,693	45,014
Chemical engineering	6,136	5,985	5,939	5,821	5,630	5,593	5,865	5,829
Total U.S. citizens and permanent residents	3,381	3,314	3,382	3,281	3,059	2,826	2,813	2,712
American Indian/Alaskan Native	15	18	21	13	16	13	17	9
Asian/Pacific Islander	395	351	378	405	356	384	438	491
Black, non-Hispanic	133	135	145	130	126	101	125	135
Hispanic	134	164	159	115	146	152	145	152
Other or unknown	115	106	140	118	109	102	131	81
White, non-Hispanic	2,589	2,540	2,539	2,500	2,306	2,074	1,957	1,844
Students with temporary visas	2,755	2,671	2,557	2,540	2,571	2,767	3,052	3,117

See explanatory information, if any, and SOURCE at end of table.

Table 21. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 1994-2001

Page 3 of 3

Field, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Civil engineering	12,641	12,248	11,791	11,406	11,154	11,237	11,765	12,099
Total U.S. citizens and permanent residents	7,848	7,652	7,509	7,082	6,871	6,492	6,348	6,320
American Indian/Alaskan Native	23	27	36	41	26	30	21	24
Asian/Pacific Islander	776	760	719	627	721	624	498	539
Black, non-Hispanic	230	261	242	247	230	247	278	261
Hispanic	354	378	452	442	464	457	518	496
Other or unknown	253	334	354	281	294	295	284	311
White, non-Hispanic	6,212	5,892	5,706	5,444	5,136	4,839	4,749	4,689
Students with temporary visas	4,793	4,596	4,282	4,324	4,283	4,745	5,417	5,779
Electrical engineering	19,385	18,167	17,967	18,854	19,470	20,219	22,821	25,112
Total U.S. citizens and permanent residents	10,441	9,365	8,688	8,475	8,089	7,478	7,558	8,133
American Indian/Alaskan Native	23	28	26	25	13	18	19	27
Asian/Pacific Islander	2,152	1,895	1,831	1,766	1,821	1,906	1,834	2,044
Black, non-Hispanic	538	484	445	481	466	452	427	439
Hispanic	414	384	373	388	387	327	328	376
Other or unknown	643	702	611	714	538	389	732	764
White, non-Hispanic	6,671	5,872	5,402	5,101	4,864	4,386	4,218	4,483
Students with temporary visas	8,944	8,802	9,279	10,379	11,381	12,741	15,263	16,979
Industrial engineering	5,960	5,389	5,166	5,116	4,894	5,500	6,089	6,534
Total U.S. citizens and permanent residents	3,211	2,885	2,528	2,443	2,255	2,447	2,421	2,173
American Indian/Alaskan Native	10	5	8	8	9	15	16	16
Asian/Pacific Islander	363	337	285	324	306	379	320	276
Black, non-Hispanic	199	204	193	189	166	175	233	200
Hispanic	161	147	154	144	125	148	154	171
Other or unknown	164	256	145	127	126	113	183	145
White, non-Hispanic	2,314	1,936	1,743	1,651	1,523	1,617	1,515	1,365
Students with temporary visas	2,749	2,504	2,638	2,673	2,639	3,053	3,668	4,361
Mechanical engineering	11,875	11,128	10,690	10,432	10,073	10,331	10,929	11,436
Total U.S. citizens and permanent residents	7,090	6,548	6,024	5,591	5,212	5,007	4,875	4,923
American Indian/Alaskan Native	25	30	23	22	19	18	12	18
Asian/Pacific Islander	969	804	705	631	626	663	676	737
Black, non-Hispanic	283	285	298	315	285	250	260	247
Hispanic	250	257	237	234	238	231	211	246
Other or unknown	388	398	323	316	328	232	291	219
White, non-Hispanic	5,175	4,774	4,438	4,073	3,716	3,613	3,425	3,456
Students with temporary visas	4,785	4,580	4,666	4,841	4,861	5,324	6,054	6,513
Other engineering	15,573	14,865	14,306	14,059	14,214	15,143	15,115	16,562
Total U.S. citizens and permanent residents	9,181	8,828	8,345	8,005	7,900	8,091	7,876	8,297
American Indian/Alaskan Native	38	27	26	31	53	27	26	35
Asian/Pacific Islander	1,074	999	897	967	974	1,032	1,043	1,156
Black, non-Hispanic	320	322	342	312	305	381	392	384
Hispanic	306	292	282	266	284	301	356	371
Other or unknown	340	414	452	447	374	465	433	573
White, non-Hispanic	7,103	6,774	6,346	5,982	5,910	5,885	5,626	5,778
Students with temporary visas	6,392	6,037	5,961	6,054	6,314	7,052	7,239	8,265
Total, health fields	39,113	42,119	44,503	46,625	48,448	50,510	50,059	50,639
Total U.S. citizens and permanent residents	35,460	38,465	40,491	42,613	44,425	46,149	45,544	45,582
American Indian/Alaskan Native	178	199	220	238	241	264	262	282
Asian/Pacific Islander	2,014	2,310	2,696	3,003	3,378	3,562	3,627	3,888
Black, non-Hispanic	1,620	1,835	2,006	2,166	2,483	2,750	2,945	3,284
Hispanic	1,696	1,961	2,032	1,993	2,060	2,522	2,801	2,928
Other or unknown	1,349	1,682	1,590	1,950	1,779	1,809	2,060	2,166
White, non-Hispanic	28,603	30,478	31,947	33,263	34,484	35,242	33,849	33,034
Students with temporary visas	3,653	3,654	4,012	4,012	4,023	4,361	4,515	5,057

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 22. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in all institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	89,823	86,711	87,376	88,707	91,021	98,155	109,553	119,827
Total, science and engineering fields	86,170	83,057	83,364	84,695	86,998	93,794	105,038	114,770
Sciences, total	55,752	53,867	53,981	53,884	54,949	58,112	64,345	69,756
Physical sciences, total	10,913	10,476	10,299	10,077	9,923	10,335	10,820	11,250
Astronomy	259	225	212	184	206	234	259	271
Chemistry	5,915	5,774	5,719	5,591	5,546	5,627	5,689	5,979
Physics	4,672	4,419	4,323	4,257	4,120	4,405	4,797	4,910
Physical sciences, n.e.c.	67	58	45	45	51	69	75	90
Earth, atmos., & ocean sci., total	2,860	2,586	2,396	2,221	2,186	2,216	2,403	2,451
Atmospheric sciences	250	248	268	281	234	257	283	255
Geosciences	1,559	1,390	1,300	1,178	1,119	1,110	1,182	1,225
Oceanography	671	583	510	471	483	463	489	477
Earth, atmos., & ocean sci., n.e.c.	380	365	318	291	350	386	449	494
Mathematical sciences, total	5,350	5,119	5,081	4,882	4,690	5,208	5,382	5,798
Mathematics & applied mathematics	4,396	4,166	4,148	3,960	3,788	4,084	4,131	4,328
Statistics	954	953	933	922	902	1,124	1,251	1,470
Computer sciences	7,944	7,883	8,795	9,757	10,930	12,748	16,866	19,724
Agricultural sciences	2,794	2,736	2,557	2,351	2,226	2,145	2,063	2,229
Biological sciences, total	11,762	11,118	10,487	10,219	10,453	10,236	10,848	11,439
Anatomy	215	232	204	202	184	188	207	202
Biochemistry	1,684	1,594	1,455	1,370	1,402	1,387	1,548	1,513
Biology	1,728	1,675	1,659	1,764	1,785	1,714	1,753	1,857
Biometry/epidemiology	533	500	468	436	606	627	689	739
Biophysics	208	198	175	170	162	151	202	255
Botany	739	639	627	610	621	595	566	576
Cell biology	855	807	800	782	798	786	917	1,021
Ecology	161	154	143	133	134	156	159	172
Entomology/parasitology	323	332	285	259	266	278	265	247
Genetics	348	340	373	399	380	366	362	401
Microbio., immunology, & virology	1,232	1,116	1,009	939	904	900	896	968
Nutrition	1,101	1,118	1,025	960	925	893	939	1,014
Pathology	335	322	319	281	278	283	288	283
Pharmacology	631	532	560	541	562	552	610	620
Physiology	574	509	420	401	417	433	425	415
Zoology	262	220	204	177	160	132	184	205
Biosciences, n.e.c.	833	830	761	795	869	795	838	951
Psychology, total	1,858	1,648	1,623	1,670	1,738	1,737	1,856	2,013
Psychology, general	665	620	571	579	584	599	715	784
Clinical psychology	280	239	253	275	303	319	326	352
Psychology, n.e.c.	913	789	799	816	851	819	815	877
Social sciences, total	12,271	12,301	12,743	12,707	12,803	13,487	14,107	14,852
Agricultural economics	832	899	804	821	786	807	904	950
Anthropology (cultural & social)	681	584	592	596	637	701	693	658
Economics (except agricultural)	4,579	4,691	4,904	4,773	4,651	4,916	5,206	5,683
Geography	398	396	398	442	492	497	540	629
History and philosophy of science	52	44	49	64	61	57	67	67
Linguistics	898	874	883	862	882	858	866	880
Political science	2,639	2,675	2,956	2,863	2,943	3,271	3,450	3,549
Sociology	1,065	943	936	990	942	1,013	1,073	1,068
Sociology/anthropology	77	77	67	73	87	63	67	72
Social sciences, n.e.c.	1,050	1,118	1,154	1,223	1,322	1,304	1,241	1,296
Engineering, total	30,418	29,190	29,383	30,811	32,049	35,682	40,693	45,014
Aerospace engineering	1,138	1,082	1,159	1,202	1,297	1,367	1,401	1,495
Agricultural engineering	441	445	406	351	358	369	333	366
Biomedical engineering	730	662	633	652	659	799	877	1,038
Chemical engineering	2,755	2,671	2,557	2,540	2,571	2,767	3,052	3,117
Civil engineering	4,793	4,596	4,282	4,324	4,283	4,745	5,417	5,779
Electrical engineering	8,944	8,802	9,279	10,379	11,381	12,741	15,263	16,979
Engineering science	514	418	426	398	485	469	576	653
Industrial/manufacturing eng.	2,749	2,504	2,638	2,673	2,639	3,053	3,668	4,361
Mechanical engineering	4,785	4,580	4,666	4,841	4,861	5,324	6,054	6,513
Metallurgical/materials eng.	1,779	1,722	1,736	1,772	1,842	1,851	1,956	2,201
Mining engineering	153	147	112	106	56	90	97	94
Nuclear engineering	379	347	284	274	273	298	312	337
Petroleum engineering	360	311	317	381	419	449	330	340
Engineering, n.e.c.	898	903	888	918	925	1,360	1,357	1,741

See explanatory information, if any, and SOURCE at end of table.

Table 22. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in all institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	3,653	3,654	4,012	4,012	4,023	4,361	4,515	5,057
Medical fields, total	1,325	1,233	1,328	1,230	1,283	1,452	1,332	1,751
Anesthesiology	6	4	3	2	8	1	1	1
Cardiology	7	10	11	23	13	17	14	16
Oncology/cancer research	59	41	56	34	31	49	41	47
Endocrinology	12	26	22	19	17	17	13	18
Gastroenterology	0	0	0	3	0	0	1	1
Hematology	0	0	0	0	0	0	4	0
Neurology	228	241	267	213	238	261	315	357
Obstetrics and gynecology	1	1	3	0	0	1	1	0
Ophthalmology	8	12	4	6	15	16	16	9
Otorhinolaryngology	0	0	0	0	0	2	0	0
Pediatrics	10	21	15	24	23	23	32	37
Preventive medicine/community health	728	736	816	788	825	936	754	1,089
Psychiatry	3	3	15	15	1	3	1	1
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	69	50	40	38	29	29	30	33
Surgery	6	6	4	5	5	7	9	7
Clinical medicine, n.e.c.	188	82	72	60	78	90	100	135
Other health fields, total	2,328	2,421	2,684	2,782	2,740	2,909	3,183	3,306
Dental sciences	224	260	309	329	317	272	336	294
Nursing	282	296	263	305	306	352	330	316
Pharmaceutical sciences	863	950	1,048	1,062	1,048	1,054	1,194	1,230
Speech pathology/audiology	333	270	290	295	312	336	349	360
Veterinary sciences	225	254	284	286	259	285	307	326
Health related, n.e.c.	401	391	490	505	498	610	667	780

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 23. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary source of support: 1994-2001**

Page 1 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields								
Total, all sources	332,088	329,283	328,536	327,289	327,389	334,421	342,079	355,115
Federal, total	68,550	67,294	65,240	64,522	63,759	65,809	67,606	68,719
Dept. of Defense	9,449	9,339	8,802	9,021	8,259	8,037	8,143	7,953
Dept. of Energy ¹	na	na	na	na	na	2,749	2,993	3,111
Dept. of HHS, total	22,666	22,775	22,361	22,530	22,704	23,418	23,467	24,072
NIH	18,292	18,109	17,929	18,087	18,215	19,001	19,474	19,718
Other HHS	4,374	4,666	4,432	4,443	4,489	4,417	3,993	4,354
NASA ²	na	na	2,309	2,586	2,646	2,579	2,779	2,811
NSF	13,990	13,661	13,412	13,362	13,459	13,835	14,595	15,448
USDA	3,422	3,254	3,004	2,646	2,485	2,634	2,630	2,755
All other Federal	19,023	18,265	15,352	14,377	14,206	12,557	12,999	12,569
Institutional support	129,218	129,320	128,379	128,927	128,995	133,176	133,345	140,801
Other outside support, total	27,285	25,982	25,442	25,099	26,411	26,027	27,918	28,411
All other U.S.	21,567	20,435	20,193	20,251	22,157	22,101	24,075	24,489
Foreign	5,718	5,547	5,249	4,848	4,254	3,926	3,843	3,922
Self-support	107,035	106,687	109,475	108,741	108,224	109,409	113,210	117,184
Total, science and engineering								
Total, all sources	292,975	287,164	284,033	280,664	278,941	283,911	292,020	304,476
Federal, total	60,778	59,398	57,838	56,798	55,810	57,351	59,254	60,088
Dept. of Defense	9,068	9,006	8,468	8,701	7,959	7,673	7,736	7,676
Dept. of Energy ¹	na	na	na	na	na	2,719	2,978	3,100
Dept. of HHS, total	17,140	17,102	16,901	16,816	16,740	17,228	17,676	17,976
NIH	15,942	15,664	15,472	15,352	15,308	15,975	16,306	16,446
Other HHS	1,198	1,438	1,429	1,464	1,432	1,253	1,370	1,530
NASA ²	na	na	2,295	2,565	2,620	2,564	2,761	2,789
NSF	13,873	13,561	13,330	13,264	13,339	13,712	14,471	15,319
USDA	3,346	3,197	2,954	2,603	2,426	2,573	2,568	2,705
All other Federal	17,351	16,532	16,890	12,849	12,726	10,882	11,064	10,523
Institutional support	120,741	120,331	118,959	119,225	118,944	122,264	122,393	129,742
Other outside support, total	25,408	23,939	23,405	23,124	24,201	23,811	25,391	25,884
All other U.S.	20,152	18,926	18,586	18,762	20,379	20,305	21,905	22,336
Foreign	5,256	5,013	4,819	4,362	3,822	3,506	3,486	3,548
Self-support	86,048	83,496	83,831	81,517	79,986	80,485	84,982	88,762
Sciences, total								
Total, all sources	221,405	219,382	218,174	214,976	213,506	215,888	219,436	226,904
Federal, total	43,905	43,025	41,992	40,909	40,289	41,446	42,566	43,049
Dept. of Defense	4,351	4,196	3,930	3,927	3,643	3,320	3,271	3,258
Dept. of Energy ¹	na	na	na	na	na	1,732	1,770	1,808
Dept. of HHS, total	16,234	16,184	16,066	15,901	15,839	16,267	16,543	16,700
NIH	15,160	14,896	14,741	14,586	14,554	15,131	15,309	15,325
Other HHS	1,074	1,288	1,325	1,315	1,285	1,136	1,234	1,375
NASA ²	na	na	1,202	1,304	1,375	1,429	1,492	1,439
NSF	9,110	8,982	8,739	8,653	8,620	8,768	9,262	9,892
USDA	2,982	2,848	2,652	2,371	2,229	2,333	2,351	2,445
All other Federal	11,228	10,815	9,403	8,753	8,583	7,597	7,877	7,507
Institutional support	96,170	96,496	95,556	95,429	95,543	97,010	96,350	101,889
Other outside support, total	16,025	14,829	14,525	14,152	14,439	14,277	14,828	14,820
All other U.S.	12,385	11,471	11,246	11,230	11,825	11,888	12,429	12,360
Foreign	3,640	3,358	3,279	2,922	2,614	2,389	2,399	2,460
Self-support	65,305	65,032	66,101	64,486	63,235	63,155	65,692	67,146
Physical sciences								
Total, all sources	30,049	28,879	27,931	26,882	26,391	26,635	26,552	27,129
Federal, total	11,032	10,339	9,875	9,450	9,123	9,239	9,233	9,284
Dept. of Defense	1,316	1,198	1,073	1,037	994	881	864	855
Dept. of Energy ¹	na	na	na	na	na	1,181	1,168	1,256
Dept. of HHS, total	2,209	2,066	2,066	1,955	1,891	1,844	1,970	2,088
NIH	2,074	1,886	1,783	1,639	1,631	1,655	1,764	1,833
Other HHS	135	180	283	316	260	189	206	255
NASA ²	na	na	538	586	595	562	533	502
NSF	3,703	3,601	3,385	3,372	3,318	3,279	3,291	3,344
USDA	42	38	43	31	40	33	51	42
All other Federal	3,762	3,436	2,770	2,469	2,285	1,459	1,356	1,197
Institutional support	14,831	14,846	14,338	14,132	14,101	14,118	13,874	14,456
Other outside support, total	2,316	2,080	2,095	1,863	1,852	1,926	1,917	1,974
All other U.S.	2,008	1,793	1,801	1,645	1,663	1,754	1,749	1,847
Foreign	308	287	294	218	189	172	168	127
Self-support	1,870	1,614	1,623	1,437	1,315	1,352	1,528	1,415

See explanatory information, if any, and SOURCE at end of table.

**Table 23. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary source of support: 1994-2001**

Page 2 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Earth, atmos., & ocean sci.								
Total, all sources	11,446	11,259	10,795	10,510	10,444	10,484	10,559	10,504
Federal, total	3,630	3,472	3,273	3,119	2,959	2,965	2,993	2,916
Dept. of Defense	494	410	393	366	336	336	280	257
Dept. of Energy ¹	na	na	na	na	na	124	144	137
Dept. of HHS, total	37	33	49	40	38	37	57	60
NIH	36	30	30	27	21	17	40	37
Other HHS	1	3	19	13	17	20	17	23
NASA ²	na	na	331	355	390	409	457	456
NSF	1,409	1,387	1,242	1,201	1,122	1,128	1,140	1,127
USDA	61	65	75	52	77	55	50	65
All other Federal	1,629	1,577	1,183	1,105	996	876	865	814
Institutional support	4,337	4,439	4,270	4,387	4,441	4,748	4,620	4,673
Other outside support, total	1,023	966	918	884	860	847	905	901
All other U.S.	790	731	701	700	696	687	760	716
Foreign	233	235	217	184	164	160	145	185
Self-support	2,456	2,382	2,334	2,120	2,184	1,924	2,041	2,014
Mathematical sciences								
Total, all sources	14,226	13,410	12,966	12,144	11,751	11,796	11,732	12,498
Federal, total	1,397	1,287	1,237	1,152	1,044	1,103	1,368	1,388
Dept. of Defense	372	322	351	363	283	227	239	212
Dept. of Energy ¹	na	na	na	na	na	44	40	40
Dept. of HHS, total	76	87	82	96	100	105	92	108
NIH	68	63	61	66	68	78	76	89
Other HHS	8	24	21	30	32	27	16	19
NASA ²	na	na	21	19	11	15	23	23
NSF	518	474	435	386	384	441	635	763
USDA	16	13	9	16	7	7	7	20
All other Federal	415	391	339	272	259	264	332	222
Institutional support	9,461	9,151	8,836	8,469	8,289	8,267	8,179	8,594
Other outside support, total	552	496	554	491	453	439	438	506
All other U.S.	333	309	347	314	314	313	309	297
Foreign	219	187	207	177	139	126	129	209
Self-support	2,816	2,476	2,339	2,032	1,965	1,987	1,747	2,010
Computer sciences								
Total, all sources	16,701	16,510	17,195	18,335	19,972	22,708	26,644	30,098
Federal, total	3,067	3,176	3,106	3,173	3,309	3,361	3,674	4,240
Dept. of Defense	1,345	1,419	1,349	1,434	1,307	1,213	1,225	1,259
Dept. of Energy ¹	na	na	na	na	na	109	111	120
Dept. of HHS, total	103	111	113	106	110	107	122	173
NIH	95	93	80	78	75	64	84	101
Other HHS	8	18	33	28	35	43	38	72
NASA ²	na	na	121	122	124	111	142	166
NSF	1,047	1,054	1,051	1,087	1,171	1,309	1,482	1,869
USDA	9	13	13	12	10	20	16	25
All other Federal	563	579	459	412	587	492	576	628
Institutional support	5,438	5,488	5,639	5,912	6,206	7,038	7,816	8,973
Other outside support, total	1,393	1,300	1,166	1,184	1,311	1,529	1,906	1,927
All other U.S.	1,107	1,063	919	1,025	1,137	1,393	1,640	1,606
Foreign	286	237	247	159	174	136	266	321
Self-support	6,803	6,546	7,284	8,066	9,146	10,780	13,248	14,958
Agricultural sciences								
Total, all sources	9,479	9,605	9,297	9,096	8,986	9,156	9,113	9,202
Federal, total	1,903	2,048	1,959	1,761	1,665	1,891	1,895	1,945
Dept. of Defense	35	32	38	38	47	28	42	47
Dept. of Energy ¹	na	na	na	na	na	40	45	29
Dept. of HHS, total	50	25	31	30	30	28	57	40
NIH	47	19	17	21	15	17	37	29
Other HHS	3	6	14	9	15	11	20	11
NASA ²	na	na	28	28	36	55	65	63
NSF	87	92	97	102	91	107	103	128
USDA	1,095	1,187	1,058	938	944	1,047	1,015	1,061
All other Federal	636	712	707	625	517	586	568	577
Institutional support	3,779	3,852	3,636	3,632	3,738	3,770	3,729	3,949
Other outside support, total	1,696	1,514	1,476	1,599	1,610	1,588	1,676	1,529
All other U.S.	1,182	1,111	1,124	1,260	1,314	1,334	1,442	1,346
Foreign	514	403	352	339	296	254	234	183
Self-support	2,101	2,191	2,226	2,104	1,973	1,907	1,813	1,779

See explanatory information, if any, and SOURCE at end of table.

**Table 23. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary source of support: 1994-2001**

Page 3 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Biological sciences								
Total, all sources	47,961	48,285	47,684	46,923	46,992	47,107	47,026	48,351
Federal, total	16,713	16,637	16,543	16,357	16,233	16,495	16,712	16,709
Dept. of Defense	347	359	362	373	356	337	329	352
Dept. of Energy ¹	na	na	na	na	na	156	171	165
Dept. of HHS, total	11,971	12,062	11,875	11,879	11,920	12,248	12,260	12,265
NIH	11,456	11,390	11,286	11,295	11,302	11,759	11,685	11,591
Other HHS	515	672	589	584	618	489	575	674
NASA ²	na	na	90	109	102	101	100	77
NSF	1,382	1,411	1,494	1,541	1,542	1,502	1,612	1,636
USDA	1,287	1,088	1,071	926	796	833	809	841
All other Federal	1,726	1,717	1,651	1,529	1,517	1,318	1,431	1,373
Institutional support	20,666	20,792	20,373	20,259	20,220	20,421	20,264	21,288
Other outside support, total	4,126	3,876	3,730	3,591	3,766	3,340	3,424	3,653
All other U.S.	3,496	3,273	3,173	3,072	3,237	2,879	2,997	3,283
Foreign	630	603	557	519	529	461	427	370
Self-support	6,456	6,980	7,038	6,716	6,773	6,851	6,626	6,701
Psychology								
Total, all sources	35,288	35,222	35,412	35,551	35,148	34,705	35,081	34,533
Federal, total	2,634	2,543	2,752	2,720	2,927	3,255	3,308	3,230
Dept. of Defense	175	175	139	113	128	124	142	147
Dept. of Energy ¹	na	na	na	na	na	41	25	1
Dept. of HHS, total	1,365	1,326	1,523	1,465	1,445	1,554	1,609	1,592
NIH	1,098	1,094	1,218	1,198	1,226	1,275	1,332	1,368
Other HHS	267	232	305	267	219	279	277	224
NASA ²	na	na	21	20	24	41	36	27
NSF	289	288	289	277	283	310	276	283
USDA	38	16	5	7	8	13	16	13
All other Federal	767	738	775	838	1,039	1,172	1,204	1,167
Institutional support	12,966	12,841	13,033	13,480	13,261	13,252	12,537	13,133
Other outside support, total	1,190	1,133	1,044	1,219	1,349	1,400	1,348	1,243
All other U.S.	1,116	1,089	1,003	1,162	1,296	1,344	1,297	1,178
Foreign	74	44	41	57	53	56	51	65
Self-support	18,498	18,705	18,583	18,132	17,611	16,798	17,888	16,927
Social sciences								
Total, all sources	56,255	56,212	56,894	55,535	53,822	53,297	52,729	54,589
Federal, total	3,529	3,523	3,247	3,177	3,029	3,137	3,383	3,337
Dept. of Defense	267	281	225	203	192	174	150	129
Dept. of Energy ¹	na	na	na	na	na	37	66	60
Dept. of HHS, total	423	474	327	330	305	344	376	374
NIH	286	321	266	262	216	266	291	277
Other HHS	137	153	61	68	89	78	85	97
NASA ²	na	na	52	65	93	135	136	125
NSF	675	675	746	687	709	692	723	742
USDA	434	428	378	389	347	325	387	378
All other Federal	1,730	1,665	1,519	1,503	1,383	1,430	1,545	1,529
Institutional support	24,692	25,087	25,431	25,158	25,287	25,396	25,331	26,823
Other outside support, total	3,729	3,464	3,542	3,321	3,238	3,208	3,214	3,087
All other U.S.	2,353	2,102	2,178	2,052	2,168	2,184	2,235	2,087
Foreign	1,376	1,362	1,364	1,269	1,070	1,024	979	1,000
Self-support	24,305	24,138	24,674	23,879	22,268	21,556	20,801	21,342
Engineering, total								
Total, all sources	71,570	67,782	65,859	65,688	65,435	68,023	72,584	77,572
Federal, total	16,873	16,373	15,846	15,889	15,521	15,905	16,688	17,039
Dept. of Defense	4,717	4,810	4,538	4,774	4,316	4,353	4,465	4,418
Dept. of Energy ¹	na	na	na	na	na	987	1,208	1,292
Dept. of HHS, total	906	918	835	915	901	961	1,133	1,276
NIH	782	768	731	766	754	844	997	1,121
Other HHS	124	150	104	149	147	117	136	155
NASA ²	na	na	1,093	1,261	1,245	1,135	1,269	1,350
NSF	4,763	4,579	4,591	4,611	4,719	4,944	5,209	5,427
USDA	364	349	302	232	197	240	217	260
All other Federal	6,123	5,717	4,487	4,096	4,143	3,285	3,187	3,016
Institutional support	24,571	23,835	23,403	23,796	23,401	25,254	26,043	27,853
Other outside support, total	9,383	9,110	8,880	8,972	9,762	9,534	10,563	11,064
All other U.S.	7,767	7,455	7,340	7,532	8,554	8,417	9,476	9,976
Foreign	1,616	1,655	1,540	1,440	1,208	1,117	1,087	1,088
Self-support	20,743	18,464	17,730	17,031	16,751	17,330	19,290	21,616

See explanatory information, if any, and SOURCE at end of table.

**Table 23. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary source of support: 1994-2001**

Page 4 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Chemical engineering								
Total, all sources	6,136	5,985	5,939	5,821	5,630	5,593	5,865	5,829
Federal, total	1,735	1,765	1,800	1,671	1,701	1,669	1,674	1,681
Dept. of Defense	128	164	169	170	160	161	113	140
Dept. of Energy ¹	na	na	na	na	na	220	242	257
Dept. of HHS, total	173	163	162	137	141	149	155	179
NIH	143	136	148	121	111	127	128	136
Other HHS	30	27	14	16	30	22	27	43
NASA ²	na	na	91	80	98	101	102	108
NSF	749	759	777	708	756	744	772	710
USDA	73	74	45	43	39	37	35	35
All other Federal	612	605	556	533	507	257	255	252
Institutional support	2,427	2,281	2,163	2,234	2,126	2,295	2,304	2,252
Other outside support, total	1,150	1,083	1,119	1,129	947	973	1,087	1,095
All other U.S.	1,042	945	960	949	834	899	983	984
Foreign	108	138	159	180	113	74	104	111
Self-support	824	856	857	787	856	656	800	801
Civil engineering								
Total, all sources	12,641	12,248	11,791	11,406	11,154	11,237	11,765	12,099
Federal, total	2,090	1,970	1,886	1,807	1,670	1,668	1,933	1,923
Dept. of Defense	321	290	215	232	192	157	160	178
Dept. of Energy ¹	na	na	na	na	na	50	84	82
Dept. of HHS, total	45	41	39	47	46	44	51	27
NIH	37	31	33	41	35	39	40	26
Other HHS	8	10	6	6	11	5	11	1
NASA ²	na	na	117	121	61	56	74	79
NSF	587	530	534	529	544	538	596	595
USDA	65	53	70	40	28	35	36	38
All other Federal	1,072	1,056	911	838	799	788	932	924
Institutional support	4,742	4,874	4,754	4,722	4,588	4,865	4,942	4,968
Other outside support, total	1,233	1,163	1,154	1,114	1,136	1,119	1,357	1,511
All other U.S.	942	875	911	859	922	931	1,193	1,335
Foreign	291	288	243	255	214	188	164	176
Self-support	4,576	4,241	3,997	3,763	3,760	3,585	3,533	3,697
Electrical engineering								
Total, all sources	19,385	18,167	17,967	18,854	19,470	20,219	22,821	25,112
Federal, total	4,085	4,056	3,984	4,389	4,316	4,600	5,021	4,949
Dept. of Defense	1,664	1,706	1,651	1,938	1,803	1,845	2,066	1,974
Dept. of Energy ¹	na	na	na	na	na	71	93	138
Dept. of HHS, total	100	113	93	117	102	102	181	146
NIH	83	84	71	70	79	85	139	106
Other HHS	17	29	22	47	23	17	42	40
NASA ²	na	na	173	229	244	269	283	328
NSF	1,342	1,324	1,317	1,344	1,304	1,473	1,581	1,632
USDA	24	34	13	15	12	10	12	13
All other Federal	955	879	737	746	851	830	805	718
Institutional support	6,406	6,245	6,393	6,746	6,560	7,098	7,257	7,991
Other outside support, total	2,620	2,591	2,648	2,710	3,124	2,833	3,239	3,419
All other U.S.	2,218	2,162	2,263	2,375	2,846	2,555	2,990	3,171
Foreign	402	429	385	335	278	278	249	248
Self-support	6,274	5,275	4,942	5,009	5,470	5,688	7,304	8,753
Industrial engineering								
Total, all sources	5,960	5,389	5,166	5,116	4,894	5,500	6,089	6,534
Federal, total	638	658	644	608	586	711	809	803
Dept. of Defense	178	189	209	198	180	252	236	241
Dept. of Energy ¹	na	na	na	na	na	12	31	46
Dept. of HHS, total	50	54	49	36	32	33	34	40
NIH	28	27	27	30	25	20	21	29
Other HHS	22	27	22	6	7	13	13	11
NASA ²	na	na	27	23	32	28	26	29
NSF	215	173	171	145	175	220	260	276
USDA	1	0	1	1	4	2	7	8
All other Federal	194	242	187	205	163	164	215	163
Institutional support	1,906	1,852	1,787	1,706	1,732	1,929	2,147	2,429
Other outside support, total	556	505	472	510	548	577	682	746
All other U.S.	461	422	357	406	448	488	575	605
Foreign	95	83	115	104	100	89	107	141
Self-support	2,860	2,374	2,263	2,292	2,028	2,283	2,451	2,556

See explanatory information, if any, and SOURCE at end of table.

**Table 23. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary source of support: 1994-2001**

Page 5 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Mechanical engineering								
Total, all sources	11,875	11,128	10,690	10,432	10,073	10,331	10,929	11,436
Federal, total	2,946	2,777	2,602	2,626	2,607	2,591	2,660	2,761
Dept. of Defense	782	823	739	766	728	713	655	689
Dept. of Energy ¹	na	na	na	na	na	207	239	214
Dept. of HHS, total	80	93	76	109	104	112	112	159
NIH	71	82	63	70	71	87	105	147
Other HHS	9	11	13	39	33	25	7	12
NASA ²	na	na	210	291	290	242	292	280
NSF	800	743	770	841	908	882	916	1,002
USDA	10	4	13	12	5	21	7	11
All other Federal	1,274	1,114	794	607	572	414	439	406
Institutional support	4,086	3,909	3,954	3,913	3,829	4,042	4,217	4,498
Other outside support, total	1,573	1,601	1,459	1,460	1,611	1,604	1,769	1,711
All other U.S.	1,333	1,347	1,250	1,286	1,467	1,434	1,570	1,564
Foreign	240	254	209	174	144	170	199	147
Self-support	3,270	2,841	2,675	2,433	2,026	2,094	2,283	2,466
Other engineering								
Total, all sources	15,573	14,865	14,306	14,059	14,214	15,143	15,115	16,562
Federal, total	5,379	5,147	4,930	4,788	4,641	4,666	4,591	4,922
Dept. of Defense	1,644	1,638	1,555	1,470	1,253	1,225	1,235	1,196
Dept. of Energy ¹	na	na	na	na	na	427	519	555
Dept. of HHS, total	458	454	416	469	476	521	600	725
NIH	420	408	389	434	433	486	564	677
Other HHS	38	46	27	35	43	35	36	48
NASA ²	na	na	475	517	520	439	492	526
NSF	1,070	1,050	1,022	1,044	1,032	1,087	1,084	1,212
USDA	191	184	160	121	109	135	120	155
All other Federal	2,016	1,821	1,302	1,167	1,251	832	541	553
Institutional support	5,004	4,674	4,352	4,475	4,566	5,025	5,176	5,715
Other outside support, total	2,251	2,167	2,028	2,049	2,396	2,428	2,429	2,582
All other U.S.	1,771	1,704	1,599	1,657	2,037	2,110	2,165	2,317
Foreign	480	463	429	392	359	318	264	265
Self-support	2,939	2,877	2,996	2,747	2,611	3,024	2,919	3,343
Total, health fields								
Total, all sources	39,113	42,119	44,503	46,625	48,448	50,510	50,059	50,639
Federal, total	7,772	7,896	7,402	7,724	7,949	8,458	8,352	8,631
Dept. of Defense	381	333	334	320	300	364	407	277
Dept. of Energy ¹	na	na	na	na	na	30	15	11
Dept. of HHS, total	5,526	5,673	5,460	5,714	5,964	6,190	5,791	6,096
NIH	2,350	2,445	2,457	2,735	2,907	3,026	3,168	3,272
Other HHS	3,176	3,228	3,003	2,979	3,057	3,164	2,623	2,824
NASA ²	na	na	14	21	26	15	18	22
NSF	117	100	82	98	120	123	124	129
USDA	76	57	50	43	59	61	62	50
All other Federal	1,672	1,733	1,462	1,528	1,480	1,675	1,935	2,046
Institutional support	8,477	8,989	9,420	9,702	10,051	10,912	10,952	11,059
Other outside support, total	1,877	2,043	2,037	1,975	2,210	2,216	2,527	2,527
All other U.S.	1,415	1,509	1,607	1,489	1,778	1,796	2,170	2,153
Foreign	462	534	430	486	432	420	357	374
Self-support	20,987	23,191	25,644	27,224	28,238	28,924	28,228	28,422

¹ Data for Department of Energy were not collected separately prior to 1999. Students supported by the Department of Energy prior to 1999 were included under "All other Federal" support.

² Data for NASA were not collected separately prior to 1996. Students supported by NASA prior to 1996 were included under "All other Federal" support.

KEY:
 HHS = Department of Health & Human Services
 NIH = National Institutes of Health
 NASA = National Aeronautics & Space Administration
 NSF = National Science Foundation
 USDA = United States Department of Agriculture
 na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 24. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary mechanism of support: 1994-2001**

Page 1 of 3

Field and primary mechanism of support	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields:								
Total, all types	332,088	329,283	328,536	327,289	327,389	334,421	342,079	355,115
Fellowships	28,892	28,887	28,862	28,956	29,106	30,093	31,259	32,176
Traineeships	15,681	15,943	15,481	14,488	14,946	14,694	14,178	14,155
Research assistantships	92,008	89,946	87,694	88,001	88,097	91,261	94,288	99,724
Teaching assistantships	66,844	65,976	65,756	65,425	65,173	66,286	66,455	67,992
Other types of support	128,663	128,531	130,743	130,419	130,067	132,087	135,899	141,068
Self-support	107,035	106,687	109,475	108,741	108,224	109,409	113,210	117,184
Other support	21,628	21,844	21,268	21,678	21,843	22,678	22,689	23,884
Total, science and engineering:								
Total, all types	292,975	287,164	284,033	280,664	278,941	283,911	292,020	304,476
Fellowships	26,749	26,686	26,347	26,478	26,575	27,360	28,350	29,600
Traineeships	10,345	10,544	10,337	9,670	9,841	9,494	9,553	9,198
Research assistantships	87,608	85,316	83,293	83,105	83,053	85,851	88,399	93,510
Teaching assistantships	64,042	63,147	62,728	62,256	61,974	63,190	63,367	64,692
Other types of support	104,231	101,471	101,328	99,155	97,498	98,016	102,351	107,476
Self-support	86,048	83,496	83,831	81,517	79,986	80,485	84,982	88,762
Other support	18,183	17,975	17,497	17,638	17,512	17,531	17,369	18,714
Sciences, total:								
Total, all types	221,405	219,382	218,174	214,976	213,506	215,888	219,436	226,904
Fellowships	20,692	20,671	20,678	20,673	20,974	21,261	21,994	23,130
Traineeships	9,412	9,535	9,470	8,791	8,963	8,726	8,787	8,421
Research assistantships	59,509	58,257	56,759	56,190	55,669	57,182	57,747	61,313
Teaching assistantships	53,268	52,986	52,714	52,103	51,892	52,488	52,311	52,918
Other types of support	78,524	77,933	78,553	77,219	76,008	76,231	78,597	81,122
Self-support	65,305	65,032	66,101	64,486	63,235	63,155	65,692	67,146
Other support	13,219	12,901	12,452	12,733	12,773	13,076	12,905	13,976
Physical sciences:								
Total, all types	30,049	28,879	27,931	26,882	26,391	26,635	26,552	27,129
Fellowships	2,430	2,351	2,203	2,151	2,113	2,199	2,259	2,370
Traineeships	681	677	650	531	482	383	462	457
Research assistantships	12,378	11,825	11,504	11,282	11,046	11,270	11,109	11,787
Teaching assistantships	11,893	11,696	11,247	10,890	10,880	10,866	10,712	10,536
Other types of support	2,667	2,330	2,327	2,028	1,870	1,917	2,010	1,979
Self-support	1,870	1,614	1,623	1,437	1,315	1,352	1,528	1,415
Other support	797	716	704	591	555	565	482	564
Earth, atmos., & ocean sci.:								
Total, all types	11,446	11,259	10,795	10,510	10,444	10,484	10,559	10,504
Fellowships	865	896	870	814	922	930	1,046	1,065
Traineeships	140	131	131	92	114	109	98	97
Research assistantships	4,854	4,655	4,303	4,276	4,108	4,249	4,236	4,173
Teaching assistantships	2,481	2,508	2,527	2,648	2,559	2,612	2,527	2,561
Other types of support	3,106	3,069	2,964	2,680	2,741	2,584	2,652	2,608
Self-support	2,456	2,382	2,334	2,120	2,184	1,924	2,041	2,014
Other support	650	687	630	560	557	660	611	594
Mathematical sciences:								
Total, all types	14,226	13,410	12,966	12,144	11,751	11,796	11,732	12,498
Fellowships	1,216	1,297	1,285	1,206	1,104	1,035	1,294	1,397
Traineeships	244	222	179	179	164	112	122	105
Research assistantships	1,534	1,451	1,296	1,389	1,215	1,269	1,251	1,428
Teaching assistantships	7,634	7,293	7,127	6,699	6,566	6,767	6,798	6,871
Other types of support	3,598	3,147	3,079	2,671	2,702	2,613	2,267	2,697
Self-support	2,816	2,476	2,339	2,032	1,965	1,987	1,747	2,010
Other support	782	671	740	639	737	626	520	687
Computer sciences:								
Total, all types	16,701	16,510	17,195	18,335	19,972	22,708	26,644	30,098
Fellowships	908	911	930	942	1,011	1,006	1,196	1,044
Traineeships	281	227	210	224	219	212	263	248
Research assistantships	3,905	3,918	3,979	4,043	4,300	4,895	5,292	6,477
Teaching assistantships	3,370	3,374	3,379	3,643	3,798	4,366	4,583	5,114
Other types of support	8,237	8,080	8,697	9,483	10,644	12,229	15,310	17,215
Self-support	6,803	6,546	7,284	8,066	9,146	10,780	13,248	14,958
Other support	1,434	1,534	1,413	1,417	1,498	1,449	2,062	2,257

See explanatory information, if any, and SOURCE at end of table.

Table 24. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary mechanism of support: 1994-2001

Page 2 of 3

Field and primary mechanism of support	1994	1995	1996	1997	1998	1999	2000	2001
Agricultural sciences:								
Total, all types	9,479	9,605	9,297	9,096	8,986	9,156	9,113	9,202
Fellowships	521	490	455	468	477	458	428	493
Traineeships	132	146	136	129	115	94	86	79
Research assistantships	5,369	5,366	5,150	5,064	4,963	5,104	5,157	5,298
Teaching assistantships	886	937	943	959	1,014	1,150	1,166	1,155
Other types of support	2,571	2,666	2,613	2,476	2,417	2,350	2,276	2,177
Self-support	2,101	2,191	2,226	2,104	1,973	1,907	1,813	1,779
Other support	470	475	387	372	444	443	463	398
Biological sciences:								
Total, all types	47,961	48,285	47,684	46,923	46,992	47,107	47,026	48,351
Fellowships	5,498	5,364	5,242	5,464	5,626	5,788	5,772	6,208
Traineeships	5,228	5,303	5,341	5,060	5,204	5,273	5,181	4,936
Research assistantships	19,413	19,241	18,675	18,606	18,299	18,409	18,673	19,442
Teaching assistantships	9,330	9,307	9,354	9,171	9,131	8,761	8,671	8,720
Other types of support	8,492	9,070	9,072	8,622	8,732	8,876	8,729	9,045
Self-support	6,456	6,980	7,038	6,716	6,773	6,851	6,626	6,701
Other support	2,036	2,090	2,034	1,906	1,959	2,025	2,103	2,344
Psychology:								
Total, all types	35,288	35,222	35,412	35,551	35,148	34,705	35,081	34,533
Fellowships	1,847	1,844	1,982	2,145	2,337	2,478	2,376	2,311
Traineeships	1,044	1,081	1,166	1,067	1,113	1,022	1,231	1,299
Research assistantships	4,655	4,585	4,762	4,790	4,762	4,795	4,706	4,892
Teaching assistantships	6,058	6,112	6,128	6,162	5,976	6,032	5,808	5,635
Other types of support	21,684	21,600	21,374	21,387	20,960	20,378	20,960	20,396
Self-support	18,498	18,705	18,583	18,132	17,611	16,798	17,888	16,927
Other support	3,186	2,895	2,791	3,255	3,349	3,580	3,072	3,469
Social sciences:								
Total, all types	56,255	56,212	56,894	55,535	53,822	53,297	52,729	54,589
Fellowships	7,407	7,518	7,711	7,483	7,384	7,367	7,623	8,242
Traineeships	1,662	1,748	1,657	1,509	1,552	1,521	1,344	1,200
Research assistantships	7,401	7,216	7,090	6,740	6,976	7,191	7,323	7,816
Teaching assistantships	11,616	11,759	12,009	11,931	11,968	11,934	12,046	12,326
Other types of support	28,169	27,971	28,427	27,872	25,942	25,284	24,393	25,005
Self-support	24,305	24,138	24,674	23,879	22,268	21,556	20,801	21,342
Other support	3,864	3,833	3,753	3,993	3,674	3,728	3,592	3,663
Engineering, total:								
Total, all types	71,570	67,782	65,859	65,688	65,435	68,023	72,584	77,572
Fellowships	6,057	6,015	5,669	5,805	5,601	6,099	6,356	6,470
Traineeships	933	1,009	867	879	878	768	766	777
Research assistantships	28,099	27,059	26,534	26,915	27,384	28,669	30,652	32,197
Teaching assistantships	10,774	10,161	10,014	10,153	10,082	10,702	11,056	11,774
Other types of support	25,707	23,538	22,775	21,936	21,490	21,785	23,754	26,354
Self-support	20,743	18,464	17,730	17,031	16,751	17,330	19,290	21,616
Other support	4,964	5,074	5,045	4,905	4,739	4,455	4,464	4,738
Chemical engineering:								
Total, all types	6,136	5,985	5,939	5,821	5,630	5,593	5,865	5,829
Fellowships	706	793	763	838	728	836	796	760
Traineeships	98	105	94	94	97	65	85	53
Research assistantships	3,289	3,119	3,074	2,991	2,900	2,944	3,091	3,154
Teaching assistantships	950	911	923	923	898	964	954	850
Other types of support	1,093	1,057	1,085	975	1,007	784	939	1,012
Self-support	824	856	857	787	856	656	800	801
Other support	269	201	228	188	151	128	139	211
Civil engineering:								
Total, all types	12,641	12,248	11,791	11,406	11,154	11,237	11,765	12,099
Fellowships	888	918	884	876	828	869	923	1,033
Traineeships	191	196	178	191	191	197	117	156
Research assistantships	4,254	4,225	4,124	3,983	3,871	4,086	4,642	4,526
Teaching assistantships	1,901	1,846	1,788	1,772	1,755	1,789	1,868	1,873
Other types of support	5,407	5,063	4,817	4,584	4,509	4,296	4,215	4,511
Self-support	4,576	4,241	3,997	3,763	3,760	3,585	3,533	3,697
Other support	831	822	820	821	749	711	682	814

See explanatory information, if any, and SOURCE at end of table.

**Table 24. Full-time graduate students in science, engineering, and health fields in all institutions,
by field and primary mechanism of support: 1994-2001**

Page 3 of 3

Field and primary mechanism of support	1994	1995	1996	1997	1998	1999	2000	2001
Electrical engineering:								
Total, all types	19,385	18,167	17,967	18,854	19,470	20,219	22,821	25,112
Fellowships	1,503	1,446	1,388	1,392	1,318	1,362	1,346	1,291
Traineeships	158	156	152	122	133	76	105	92
Research assistantships	6,853	6,694	6,919	7,507	7,684	8,400	9,121	9,595
Teaching assistantships	3,240	3,105	3,165	3,347	3,342	3,373	3,606	3,963
Other types of support	7,631	6,766	6,343	6,486	6,993	7,008	8,643	10,171
Self-support	6,274	5,275	4,942	5,009	5,470	5,688	7,304	8,753
Other support	1,357	1,491	1,401	1,477	1,523	1,320	1,339	1,418
Industrial engineering:								
Total, all types	5,960	5,389	5,166	5,116	4,894	5,500	6,089	6,534
Fellowships	273	302	234	239	252	257	328	433
Traineeships	32	37	14	21	24	21	18	58
Research assistantships	1,353	1,344	1,285	1,269	1,380	1,468	1,666	1,747
Teaching assistantships	938	828	785	775	777	893	964	1,042
Other types of support	3,364	2,878	2,848	2,812	2,461	2,861	3,113	3,254
Self-support	2,860	2,374	2,263	2,292	2,028	2,283	2,451	2,556
Other support	504	504	585	520	433	578	662	698
Mechanical engineering:								
Total, all types	11,875	11,128	10,690	10,432	10,073	10,331	10,929	11,436
Fellowships	943	944	907	846	902	874	1,021	955
Traineeships	187	187	165	215	180	142	121	126
Research assistantships	4,688	4,413	4,272	4,349	4,498	4,642	4,852	5,105
Teaching assistantships	2,069	1,930	1,860	1,887	1,780	1,950	1,970	2,148
Other types of support	3,988	3,654	3,486	3,135	2,713	2,723	2,965	3,102
Self-support	3,270	2,841	2,675	2,433	2,026	2,094	2,283	2,466
Other support	718	813	811	702	687	629	682	636
Other engineering:								
Total, all types	15,573	14,865	14,306	14,059	14,214	15,143	15,115	16,562
Fellowships	1,744	1,612	1,493	1,614	1,573	1,901	1,942	1,998
Traineeships	267	328	264	236	253	267	320	292
Research assistantships	7,662	7,264	6,860	6,816	7,051	7,129	7,280	8,070
Teaching assistantships	1,676	1,541	1,493	1,449	1,530	1,733	1,694	1,898
Other types of support	4,224	4,120	4,196	3,944	3,807	4,113	3,879	4,304
Self-support	2,939	2,877	2,996	2,747	2,611	3,024	2,919	3,343
Other support	1,285	1,243	1,200	1,197	1,196	1,089	960	961
Total, health fields:								
Total, all types	39,113	42,119	44,503	46,625	48,448	50,510	50,059	50,639
Fellowships	2,143	2,201	2,515	2,478	2,531	2,733	2,909	2,576
Traineeships	5,336	5,399	5,144	4,818	5,105	5,200	4,625	4,957
Research assistantships	4,400	4,630	4,401	4,896	5,044	5,410	5,889	6,214
Teaching assistantships	2,802	2,829	3,028	3,169	3,199	3,096	3,088	3,300
Other types of support	24,432	27,060	29,415	31,264	32,569	34,071	33,548	33,592
Self-support	20,987	23,191	25,644	27,224	28,238	28,924	28,228	28,422
Other support	3,445	3,869	3,771	4,040	4,331	5,147	5,320	5,170

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 25. Full-time graduate students in science and engineering fields in all institutions,
by primary mechanism and primary source of support: 1994-2001**

Page 1 of 2

Primary mechanism and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Total, all types:								
Total, all sources	292,975	287,164	284,033	280,664	278,941	283,911	292,020	304,476
Federal, total	60,778	59,398	57,838	56,798	55,810	57,351	59,254	60,088
Dept. of Defense	9,068	9,006	8,468	8,701	7,959	7,673	7,736	7,676
Dept. of Energy ¹	na	na	na	na	na	2,719	2,978	3,100
Dept. of HHS, total	17,140	17,102	16,901	16,816	16,740	17,228	17,676	17,976
NIH	15,942	15,664	15,472	15,352	15,308	15,975	16,306	16,446
Other HHS	1,198	1,438	1,429	1,464	1,432	1,253	1,370	1,530
NASA ²	na	na	2,295	2,565	2,620	2,564	2,761	2,789
NSF	13,873	13,561	13,330	13,264	13,339	13,712	14,471	15,319
USDA	3,346	3,197	2,954	2,603	2,426	2,573	2,568	2,705
All other Federal	17,351	16,532	13,890	12,849	12,726	10,882	11,064	10,523
Institutional support	120,741	120,331	118,959	119,225	118,944	122,264	122,393	129,742
Other outside support, total	25,408	23,939	23,405	23,124	24,201	23,811	25,391	25,884
All other U.S.	20,152	18,926	18,586	18,762	20,379	20,305	21,905	22,336
Foreign	5,256	5,013	4,819	4,362	3,822	3,506	3,486	3,548
Self-support	86,048	83,496	83,831	81,517	79,986	80,485	84,982	88,762
Fellowships:								
Total, all sources	26,749	26,686	26,347	26,478	26,575	27,360	28,350	29,600
Federal, total	6,358	6,363	6,427	6,260	6,335	6,586	6,610	6,557
Dept. of Defense	523	470	506	522	536	485	541	445
Dept. of Energy ¹	na	na	na	na	na	100	156	120
Dept. of HHS, total	1,046	1,166	1,148	1,229	1,285	1,338	1,149	1,335
NIH	915	965	969	1,002	1,057	1,168	992	1,160
Other HHS	131	201	179	227	228	170	157	175
NASA ²	na	na	410	373	380	359	338	317
NSF	2,275	2,323	2,451	2,309	2,335	2,411	2,536	2,575
USDA	112	136	111	138	136	141	120	126
All other Federal	2,402	2,268	1,801	1,689	1,663	1,752	1,770	1,639
Institutional support	13,912	14,283	14,373	15,227	15,234	15,985	16,928	18,273
Other outside support, total	6,479	6,040	5,547	4,991	5,006	4,789	4,812	4,770
All other U.S.	4,062	3,808	3,396	3,113	3,277	3,268	3,445	3,357
Foreign	2,417	2,232	2,151	1,878	1,729	1,521	1,367	1,413
Self-support	N/A							
Traineeships:								
Total, all sources	10,345	10,544	10,337	9,670	9,841	9,494	9,553	9,198
Federal, total	5,857	5,630	5,515	5,143	5,426	5,400	5,695	5,425
Dept. of Defense	122	104	124	108	64	51	59	36
Dept. of Energy ¹	na	na	na	na	na	22	10	2
Dept. of HHS, total	4,493	4,347	4,256	3,977	4,234	4,350	4,417	4,213
NIH	4,206	3,990	3,990	3,793	4,056	4,156	4,143	3,993
Other HHS	287	357	266	184	178	194	274	220
NASA ²	na	na	67	76	57	51	46	50
NSF	258	338	431	383	408	344	322	335
USDA	37	18	24	23	14	25	18	16
All other Federal	947	823	613	576	649	557	823	773
Institutional support	3,606	4,214	4,252	3,877	3,730	3,457	3,298	3,299
Other outside support, total	882	700	570	650	685	637	560	474
All other U.S.	661	505	386	488	541	537	415	342
Foreign	221	195	184	162	144	100	145	132
Self-support	N/A							
Research assistantships:								
Total, all sources	87,608	85,316	83,293	83,105	83,053	85,851	88,399	93,510
Federal, total	43,890	42,933	41,824	41,472	39,962	40,977	42,399	43,788
Dept. of Defense	6,178	6,261	5,965	6,308	5,784	5,658	5,719	5,830
Dept. of Energy ¹	na	na	na	na	na	2,533	2,715	2,887
Dept. of HHS, total	11,231	11,165	11,036	11,103	10,584	10,787	11,328	11,702
NIH	10,516	10,367	10,155	10,151	9,647	10,036	10,465	10,644
Other HHS	715	798	881	952	937	751	863	1,058
NASA ²	na	na	1,775	2,059	2,122	2,107	2,290	2,328
NSF	11,145	10,600	10,223	10,392	10,373	10,715	11,302	12,057
USDA	3,071	2,944	2,707	2,370	2,188	2,290	2,314	2,485
All other Federal	12,265	11,963	10,118	9,240	8,911	6,887	6,731	6,499
Institutional support	30,591	30,102	29,119	28,984	29,797	31,461	31,472	34,101
Other outside support, total	13,127	12,281	12,350	12,649	13,294	13,413	14,528	15,621
All other U.S.	12,364	11,541	11,611	11,909	12,666	12,816	13,900	14,979
Foreign	763	740	739	740	628	597	628	642
Self-support	N/A							

See explanatory information, if any, and SOURCE at end of table.

**Table 25. Full-time graduate students in science and engineering fields in all institutions,
by primary mechanism and primary source of support: 1994-2001**

Page 2 of 2

Primary mechanism and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Teaching assistantships:								
Total, all sources	64,042	63,147	62,728	62,256	61,974	63,190	63,367	64,692
Federal, total	677	646	741	787	971	876	1,272	970
Dept. of Defense	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dept. of Energy ¹	na	na	na	na	na	16	34	27
Dept. of HHS, total	136	113	180	157	232	203	277	242
NIH	127	106	176	127	221	196	261	211
Other HHS	9	7	4	30	11	7	16	31
NASA ²	na	na	2	24	23	9	11	33
NSF	107	157	117	80	130	121	139	203
USDA	49	37	42	30	37	60	68	46
All other Federal	385	339	400	496	549	467	743	419
Institutional support	62,755	61,964	61,366	60,879	60,391	61,623	61,125	62,753
Other outside support, total	610	537	621	590	612	691	970	969
All other U.S.	610	537	621	590	612	691	970	969
Foreign	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other types of support:								
Total, all sources	104,231	101,471	101,328	99,155	97,498	98,016	102,351	107,476
Federal, total	3,996	3,826	3,331	3,136	3,116	3,512	3,278	3,348
Dept. of Defense	2,245	2,171	1,873	1,763	1,575	1,479	1,417	1,365
Dept. of Energy ¹	na	na	na	na	na	48	63	64
Dept. of HHS, total	234	311	281	350	405	550	505	484
NIH	178	236	182	279	327	419	445	438
Other HHS	56	75	99	71	78	131	60	46
NASA ²	na	na	41	33	38	38	76	61
NSF	88	143	108	100	93	121	172	149
USDA	77	62	70	42	51	57	48	32
All other Federal	1,352	1,139	958	848	954	1,219	997	1,193
Institutional support	9,877	9,768	9,849	10,258	9,792	9,738	9,570	11,316
Other outside support, total	4,310	4,381	4,317	4,244	4,604	4,281	4,521	4,050
All other U.S.	2,455	2,535	2,572	2,662	3,283	2,993	3,175	2,689
Foreign	1,855	1,846	1,745	1,582	1,321	1,288	1,346	1,361
Self-support	86,048	83,496	83,831	81,517	79,986	80,485	84,982	88,762

¹ Data for Department of Energy were not collected separately prior to 1999. Students supported by the Department of Energy prior to 1999 were included under "All other Federal" support.

² Data for NASA were not collected separately prior to 1996. Students supported by NASA prior to 1996 were included under "All other Federal" support.

KEY:
 HHS = Department of Health & Human Services
 NIH = National Institutes of Health
 NASA = National Aeronautics & Space Administration
 NSF = National Science Foundation
 USDA = United States Department of Agriculture
 na = Not available
 N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 26. Full-time students in graduate school for the first time in science, engineering, and health fields in all institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	92,171	89,482	88,984	89,177	90,828	92,188	94,686	98,290
Total, science and engineering fields	78,036	74,362	73,447	73,600	74,373	75,429	78,678	82,520
Sciences, total	58,265	56,286	55,441	54,752	55,112	54,916	56,220	59,245
Physical sciences, total	6,456	6,129	6,015	6,037	5,932	6,004	5,838	5,995
Astronomy	164	147	157	125	162	171	183	193
Chemistry	3,813	3,708	3,702	3,758	3,682	3,672	3,490	3,635
Physics	2,381	2,188	2,088	2,074	2,046	2,074	2,102	2,102
Physical sciences, n.e.c.	98	86	68	80	42	87	63	65
Earth, atmos., & ocean sci., total	3,007	2,801	2,631	2,681	2,859	2,746	2,650	2,794
Atmospheric sciences	224	198	213	224	189	203	222	205
Geosciences	1,519	1,423	1,326	1,339	1,348	1,296	1,231	1,383
Oceanography	519	420	371	410	471	474	479	511
Earth, atmos., & ocean sci., n.e.c.	745	760	721	708	851	773	718	695
Mathematical sciences, total	3,963	3,578	3,450	3,302	3,334	3,271	3,417	3,686
Mathematics & applied mathematics	3,341	2,904	2,845	2,741	2,721	2,650	2,755	2,892
Statistics	622	674	605	561	613	621	662	794
Computer sciences	4,756	4,783	4,917	5,018	5,758	6,677	8,452	9,040
Agricultural sciences	2,300	2,239	2,122	2,102	2,249	2,201	2,267	2,324
Biological sciences, total	11,365	11,407	10,824	11,108	11,385	10,989	11,017	11,705
Anatomy	209	230	237	195	192	171	209	180
Biochemistry	1,032	983	947	998	1,022	896	928	851
Biology	2,742	2,690	2,579	2,687	2,498	2,521	2,292	2,425
Biometry/epidemiology	657	738	671	661	817	786	820	910
Biophysics	149	153	155	133	158	118	126	162
Botany	483	443	443	415	449	404	399	353
Cell biology	774	739	766	825	889	851	948	962
Ecology	285	308	245	244	256	248	277	348
Entomology/parasitology	206	184	202	194	233	179	185	202
Genetics	345	344	387	436	395	425	378	381
Microbio., immunology, & virology	899	905	844	864	857	904	825	884
Nutrition	798	857	831	797	940	834	835	906
Pathology	334	296	291	350	279	320	272	320
Pharmacology	533	500	422	458	513	487	546	501
Physiology	649	811	725	633	654	608	565	615
Zoology	343	346	318	317	276	269	240	261
Biosciences, n.e.c.	927	880	761	901	957	968	1,172	1,444
Psychology, total	9,530	9,241	9,140	8,800	8,590	8,305	7,562	7,712
Psychology, general	3,483	3,372	3,178	3,187	3,060	2,745	2,551	2,678
Clinical psychology	2,235	2,092	2,115	2,059	2,001	1,992	1,829	1,726
Psychology, n.e.c.	3,812	3,777	3,847	3,554	3,529	3,568	3,182	3,308
Social sciences, total	16,888	16,108	16,342	15,704	15,005	14,723	15,017	15,989
Agricultural economics	533	492	436	467	417	482	455	496
Anthropology (cultural & social)	1,331	1,247	1,252	1,196	1,219	1,193	1,160	1,119
Economics (except agricultural)	2,793	2,605	2,466	2,368	2,352	2,355	2,525	2,562
Geography	959	836	870	914	805	830	789	870
History and philosophy of science	74	70	58	79	89	91	78	72
Linguistics	612	594	620	579	493	422	454	495
Political science	6,131	5,916	5,842	5,264	4,953	4,844	5,153	5,600
Sociology	1,548	1,503	1,505	1,525	1,428	1,307	1,303	1,425
Sociology/anthropology	229	147	210	171	177	144	164	160
Social sciences, n.e.c.	2,678	2,698	3,083	3,141	3,072	3,055	2,936	3,190
Engineering, total	19,771	18,076	18,006	18,848	19,261	20,513	22,458	23,275
Aerospace engineering	793	650	687	735	717	727	775	772
Agricultural engineering	193	177	183	165	155	202	177	187
Biomedical engineering	566	592	572	671	695	734	926	859
Chemical engineering	1,465	1,421	1,478	1,467	1,503	1,491	1,598	1,541
Civil engineering	4,194	3,825	3,845	3,792	3,785	3,726	3,851	3,821
Electrical engineering	5,450	4,974	4,850	5,505	5,685	6,306	7,335	7,828
Engineering science	313	275	273	274	308	255	299	339
Industrial/manufacturing eng.	1,731	1,541	1,605	1,549	1,547	1,851	2,021	2,166
Mechanical engineering	3,218	2,832	2,785	2,829	2,923	3,119	3,342	3,583
Metallurgical/materials eng.	858	822	791	870	900	892	1,005	975
Mining engineering	85	53	51	73	44	45	48	40
Nuclear engineering	208	187	182	178	153	150	163	164
Petroleum engineering	100	109	122	121	132	149	149	153
Engineering, n.e.c.	597	618	582	619	714	866	769	847

See explanatory information, if any, and SOURCE at end of table.

Table 26. Full-time students in graduate school for the first time in science, engineering, and health fields in all institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	14,135	15,120	15,537	15,577	16,455	16,759	16,008	15,770
Medical fields, total	3,278	3,741	3,573	3,527	3,896	3,913	3,850	4,096
Anesthesiology	224	219	242	274	226	210	261	265
Cardiology	3	4	1	4	6	7	6	4
Oncology/cancer research	34	34	21	32	50	44	38	45
Endocrinology	10	4	4	6	6	7	2	4
Gastroenterology	0	0	0	0	0	0	2	0
Hematology	0	0	3	1	1	2	3	0
Neurology	294	321	358	345	376	345	341	366
Obstetrics and gynecology	0	4	1	3	1	0	2	2
Ophthalmology	8	6	12	5	4	2	4	12
Otorhinolaryngology	2	0	0	0	0	0	3	1
Pediatrics	83	82	101	141	111	114	151	132
Preventive medicine/community health	2,204	2,609	2,330	2,190	2,660	2,773	2,617	2,786
Psychiatry	26	27	23	25	20	16	23	18
Pulmonary disease	0	0	0	0	0	3	2	3
Radiology	86	65	64	47	48	41	29	61
Surgery	20	45	57	48	36	40	30	9
Clinical medicine, n.e.c.	284	321	356	406	351	309	336	388
Other health fields, total	10,857	11,379	11,964	12,050	12,559	12,846	12,158	11,674
Dental sciences	413	385	400	383	399	350	381	382
Nursing	2,615	2,685	2,653	2,867	2,808	2,955	2,697	2,442
Pharmaceutical sciences	482	457	519	486	548	597	602	634
Speech pathology/audiology	3,484	3,579	3,867	3,783	3,979	3,974	3,873	3,814
Veterinary sciences	165	162	123	135	204	169	270	359
Health related, n.e.c.	3,698	4,111	4,402	4,396	4,621	4,801	4,335	4,043

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 27. Graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 2001**

Page 1 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, all surveyed fields	510,156	2,140	33,256	27,428	22,321	25,286	260,150	139,575
Total, science and engineering fields	429,492	1,687	27,659	21,773	17,983	21,335	205,757	133,298
Sciences, total	319,986	1,460	19,057	18,852	14,785	17,007	167,437	81,388
Physical sciences, total	30,988	81	1,612	879	896	1,292	14,235	11,993
Astronomy	916	0	36	12	17	41	527	283
Chemistry	18,300	62	1,104	631	629	523	8,965	6,386
Physics	11,264	19	455	215	239	622	4,484	5,230
Physical sciences, n.e.c.	508	0	17	21	11	106	259	94
Earth, atmos., & ocean sci., total	13,841	70	352	227	397	451	9,583	2,761
Atmospheric sciences	924	4	37	19	15	28	547	274
Geosciences	6,544	32	139	57	155	203	4,613	1,345
Oceanography	2,585	12	51	31	137	71	1,769	514
Earth, atmos., & ocean sci., n.e.c.	3,788	22	125	120	90	149	2,654	628
Mathematical sciences, total	16,663	38	997	591	498	683	7,386	6,470
Mathematics & applied mathematics	13,594	34	825	526	458	582	6,322	4,847
Statistics	3,069	4	172	65	40	101	1,064	1,623
Computer sciences	52,196	88	5,716	1,726	901	2,977	15,039	25,749
Agricultural sciences	11,911	57	258	301	422	476	7,894	2,503
Biological sciences, total	57,826	205	4,719	2,369	2,338	2,499	33,311	12,385
Anatomy	867	4	71	26	22	13	522	209
Biochemistry	4,917	15	477	129	171	173	2,373	1,579
Biology	13,355	52	762	755	700	659	8,281	2,146
Biometry/epidemiology	3,629	11	419	171	148	181	1,848	851
Biophysics	893	1	132	17	20	32	430	261
Botany	2,182	9	99	48	44	82	1,288	612
Cell biology	4,768	10	520	137	180	286	2,558	1,077
Ecology	1,848	8	47	26	58	89	1,428	192
Entomology/parasitology	1,170	2	46	15	39	29	764	275
Genetics	1,833	7	147	54	67	101	1,041	416
Microbio., immunology, & virology	4,798	13	479	178	220	246	2,658	1,004
Nutrition	4,429	15	254	231	162	162	2,445	1,160
Pathology	1,649	11	186	50	67	74	968	293
Pharmacology	3,052	10	335	166	113	53	1,727	648
Physiology	1,967	7	288	98	60	48	1,035	431
Zoology	1,448	8	33	10	29	44	1,100	224
Biosciences, n.e.c.	5,021	22	424	258	238	227	2,845	1,007
Psychology, total	50,798	336	2,165	4,621	4,323	3,282	33,558	2,513
Psychology, general	16,022	104	729	1,724	1,017	1,006	10,514	928
Clinical psychology	12,473	92	574	751	1,488	797	8,346	425
Psychology, n.e.c.	22,303	140	862	2,146	1,818	1,479	14,698	1,160
Social sciences, total	85,763	585	3,238	8,138	5,010	5,347	46,431	17,014
Agricultural economics	2,161	4	29	76	40	72	888	1,052
Anthropology (cultural & social)	7,491	102	253	274	383	520	5,190	769
Economics (except agricultural)	11,340	21	502	314	306	482	3,468	6,247
Geography	4,276	28	97	114	106	178	3,031	722
History and philosophy of science	571	2	21	16	18	30	414	70
Linguistics	2,744	13	154	47	126	149	1,293	962
Political science	31,850	190	1,215	4,255	2,171	2,039	17,728	4,252
Sociology	8,775	66	359	999	605	371	5,069	1,306
Sociology/anthropology	808	16	14	131	28	39	495	85
Social sciences, n.e.c.	15,747	143	594	1,912	1,227	1,467	8,855	1,549
Engineering, total	109,506	227	8,602	2,921	3,198	4,328	38,320	51,910
Aerospace engineering	3,485	8	203	45	70	108	1,447	1,604
Agricultural engineering	907	3	44	26	27	22	375	410
Biomedical engineering	3,593	5	423	121	101	201	1,608	1,134
Chemical engineering	6,913	13	576	167	180	147	2,417	3,413
Civil engineering	16,604	43	789	431	746	590	7,462	6,543
Electrical engineering	35,745	45	3,728	813	825	1,544	8,817	19,973
Engineering science	1,798	9	123	33	40	132	717	744
Industrial/manufacturing eng.	12,940	43	696	591	469	563	5,255	5,323
Mechanical engineering	15,831	32	1,072	354	425	510	5,897	7,541
Metallurgical/materials eng.	4,721	8	244	107	80	107	1,839	2,336
Mining engineering	240	0	12	1	3	5	115	104
Nuclear engineering	801	0	27	13	34	7	364	356
Petroleum engineering	680	1	39	4	63	48	112	413
Engineering, n.e.c.	5,248	17	626	215	135	344	1,895	2,016

See explanatory information, if any, and SOURCE at end of table.

**Table 27. Graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 2001**

Page 2 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, health fields	80,664	453	5,597	5,655	4,338	3,951	54,393	6,277
Medical fields, total	17,518	95	1,886	1,499	1,405	1,002	9,468	2,163
Anesthesiology	891	5	35	36	15	120	678	2
Cardiology	50	0	11	1	0	1	21	16
Oncology/cancer research	261	1	32	10	9	1	158	50
Endocrinology	53	0	5	1	1	5	22	19
Gastroenterology	7	0	0	0	0	0	6	1
Hematology	6	0	0	0	0	1	5	0
Neurology	2,136	11	221	62	78	115	1,284	365
Obstetrics and gynecology	28	1	4	4	2	0	15	2
Ophthalmology	46	0	10	0	1	0	24	11
Otorhinolaryngology	4	1	0	0	0	0	3	0
Pediatrics	380	3	28	17	16	11	262	43
Preventive medicine/community health	11,172	58	1,116	1,226	1,085	568	5,676	1,443
Psychiatry	206	3	8	12	22	39	120	2
Pulmonary disease	8	0	2	2	0	0	4	0
Radiology	262	3	32	6	8	11	164	38
Surgery	130	1	31	5	16	0	65	12
Clinical medicine, n.e.c.	1,878	8	351	117	152	130	961	159
Other health fields, total	63,146	358	3,711	4,156	2,933	2,949	44,925	4,114
Dental sciences	1,494	4	148	31	82	36	861	332
Nursing	23,609	157	1,153	1,680	967	1,118	17,982	552
Pharmaceutical sciences	3,908	21	557	250	215	83	1,362	1,420
Speech pathology/audiology	13,193	69	331	656	618	642	10,431	446
Veterinary sciences	1,476	4	41	60	35	23	957	356
Health related, n.e.c.	19,466	103	1,481	1,479	1,016	1,047	13,332	1,008

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 28. Male graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 2001**

Page 1 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, all surveyed fields	271,312	929	17,781	9,540	9,665	13,040	124,611	95,746
Total, science and engineering fields	251,848	808	15,997	8,482	8,529	12,063	113,079	92,890
Sciences, total	164,569	646	9,559	6,544	6,172	8,635	82,320	50,693
Physical sciences, total	21,656	54	1,021	466	539	928	10,077	8,571
Astronomy	651	0	21	8	12	28	373	209
Chemistry	11,452	39	629	290	337	321	5,798	4,038
Physics	9,219	15	361	162	181	505	3,731	4,264
Physical sciences, n.e.c.	334	0	10	6	9	74	175	60
Earth, atmos., & ocean sci., total	7,949	37	179	125	196	257	5,370	1,785
Atmospheric sciences	626	3	23	12	8	18	391	171
Geosciences	4,061	17	84	32	77	129	2,760	962
Oceanography	1,330	6	21	16	72	35	872	308
Earth, atmos., & ocean sci., n.e.c.	1,932	11	51	65	39	75	1,347	344
Mathematical sciences, total	10,386	22	558	320	329	435	4,588	4,134
Mathematics & applied mathematics	8,766	20	480	284	302	387	3,965	3,328
Statistics	1,620	2	78	36	27	48	623	806
Computer sciences	36,902	59	3,624	953	656	2,132	11,281	18,197
Agricultural sciences	6,709	35	112	109	211	267	4,416	1,559
Biological sciences, total	26,730	95	2,183	805	1,007	1,181	15,421	6,038
Anatomy	448	3	39	9	14	8	255	120
Biochemistry	2,694	9	266	53	87	100	1,356	823
Biology	6,185	27	338	248	313	304	3,916	1,039
Biometry/epidemiology	1,271	2	125	46	45	73	623	357
Biophysics	628	0	97	10	17	26	292	186
Botany	1,098	4	42	27	23	46	630	326
Cell biology	2,322	1	250	60	83	134	1,304	490
Ecology	888	3	18	13	18	44	684	108
Entomology/parasitology	690	1	27	9	21	19	423	190
Genetics	792	1	74	23	24	43	409	218
Microbio., immunology, & virology	2,303	10	235	57	100	136	1,305	460
Nutrition	993	0	53	46	28	34	436	396
Pathology	748	9	90	18	31	33	410	157
Pharmacology	1,446	7	155	58	51	19	858	298
Physiology	1,056	3	155	42	34	34	570	218
Zoology	763	5	17	5	16	21	574	125
Biosciences, n.e.c.	2,405	10	202	81	102	107	1,376	527
Psychology, total	13,215	83	539	947	1,050	819	9,001	776
Psychology, general	4,584	24	180	394	281	267	3,113	325
Clinical psychology	3,084	23	108	148	333	176	2,202	94
Psychology, n.e.c.	5,547	36	251	405	436	376	3,686	357
Social sciences, total	41,022	261	1,343	2,819	2,184	2,616	22,166	9,633
Agricultural economics	1,326	4	14	41	22	48	557	640
Anthropology (cultural & social)	2,929	46	67	58	159	209	2,042	348
Economics (except agricultural)	7,358	12	297	163	204	312	2,273	4,097
Geography	2,490	18	42	61	59	102	1,776	432
History and philosophy of science	327	0	11	7	12	20	232	45
Linguistics	951	4	48	15	33	58	463	330
Political science	15,332	92	515	1,467	913	1,024	8,979	2,342
Sociology	3,066	25	119	314	241	154	1,693	520
Sociology/anthropology	308	7	4	41	16	17	194	29
Social sciences, n.e.c.	6,935	53	226	652	525	672	3,957	850
Engineering, total	87,279	162	6,438	1,938	2,357	3,428	30,759	42,197
Aerospace engineering	3,000	6	169	41	53	93	1,237	1,401
Agricultural engineering	623	1	23	10	11	12	258	308
Biomedical engineering	2,352	4	263	59	69	135	1,058	764
Chemical engineering	5,084	5	403	78	108	101	1,807	2,582
Civil engineering	12,125	29	507	273	509	435	5,365	5,007
Electrical engineering	29,715	39	2,945	622	683	1,258	7,823	16,345
Engineering science	1,435	7	98	23	29	109	579	590
Industrial/manufacturing eng.	10,132	30	501	349	302	451	4,093	4,406
Mechanical engineering	13,892	23	892	273	359	444	5,174	6,727
Metallurgical/materials eng.	3,548	6	166	61	54	86	1,390	1,785
Mining engineering	204	0	11	1	1	5	86	100
Nuclear engineering	644	0	19	7	25	6	300	287
Petroleum engineering	588	1	35	3	46	40	102	361
Engineering, n.e.c.	3,937	11	406	138	108	253	1,487	1,534

See explanatory information, if any, and SOURCE at end of table.

**Table 28. Male graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 2001**

Page 2 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, health fields	19,464	121	1,784	1,058	1,136	977	11,532	2,856
Medical fields, total	6,874	45	775	377	454	422	3,714	1,087
Anesthesiology	397	3	13	12	8	46	315	0
Cardiology	31	0	7	1	0	0	12	11
Oncology/cancer research	119	0	12	3	5	1	74	24
Endocrinology	25	0	3	0	1	4	8	9
Gastroenterology	1	0	0	0	0	0	1	0
Hematology	4	0	0	0	0	1	3	0
Neurology	1,123	7	121	27	40	66	676	186
Obstetrics and gynecology	15	0	0	2	1	0	11	1
Ophthalmology	23	0	5	0	1	0	13	4
Otorhinolaryngology	2	1	0	0	0	0	1	0
Pediatrics	53	0	2	0	3	1	33	14
Preventive medicine/community health	3,870	26	388	272	309	221	1,925	729
Psychiatry	50	1	3	4	4	1	37	0
Pulmonary disease	3	0	0	1	0	0	2	0
Radiology	156	2	21	2	5	9	99	18
Surgery	89	1	18	5	11	0	43	11
Clinical medicine, n.e.c.	913	4	182	48	66	72	461	80
Other health fields, total	12,590	76	1,009	681	682	555	7,818	1,769
Dental sciences	931	3	78	12	42	23	581	192
Nursing	2,258	18	127	101	158	102	1,675	77
Pharmaceutical sciences	1,893	9	242	90	86	44	657	765
Speech pathology/audiology	1,006	7	33	77	62	40	699	88
Veterinary sciences	610	2	22	22	14	9	345	196
Health related, n.e.c.	5,892	37	507	379	320	337	3,861	451

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 29. Female graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 2001**

Page 1 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, all surveyed fields	238,844	1,211	15,475	17,888	12,656	12,246	135,539	43,829
Total, science and engineering fields	177,644	879	11,662	13,291	9,454	9,272	92,678	40,408
Sciences, total	155,417	814	9,498	12,308	8,613	8,372	85,117	30,695
Physical sciences, total	9,332	27	591	413	357	364	4,158	3,422
Astronomy	265	0	15	4	5	13	154	74
Chemistry	6,848	23	475	341	292	202	3,167	2,348
Physics	2,045	4	94	53	58	117	753	966
Physical sciences, n.e.c.	174	0	7	15	2	32	84	34
Earth, atmos., & ocean sci., total	5,892	33	173	102	201	194	4,213	976
Atmospheric sciences	298	1	14	7	7	10	156	103
Geosciences	2,483	15	55	25	78	74	1,853	383
Oceanography	1,255	6	30	15	65	36	897	206
Earth, atmos., & ocean sci., n.e.c.	1,856	11	74	55	51	74	1,307	284
Mathematical sciences, total	6,277	16	439	271	169	248	2,798	2,336
Mathematics & applied mathematics	4,828	14	345	242	156	195	2,357	1,519
Statistics	1,449	2	94	29	13	53	441	817
Computer sciences	15,294	29	2,092	773	245	845	3,758	7,552
Agricultural sciences	5,202	22	146	192	211	209	3,478	944
Biological sciences, total	31,096	110	2,536	1,564	1,331	1,318	17,890	6,347
Anatomy	419	1	32	17	8	5	267	89
Biochemistry	2,223	6	211	76	84	73	1,017	756
Biology	7,170	25	424	507	387	355	4,365	1,107
Biometry/epidemiology	2,358	9	294	125	103	108	1,225	494
Biophysics	265	1	35	7	3	6	138	75
Botany	1,084	5	57	21	21	36	658	286
Cell biology	2,446	9	270	77	97	152	1,254	587
Ecology	960	5	29	13	40	45	744	84
Entomology/parasitology	480	1	19	6	18	10	341	85
Genetics	1,041	6	73	31	43	58	632	198
Microbio., immunology, & virology	2,495	3	244	121	120	110	1,353	544
Nutrition	3,436	15	201	185	134	128	2,009	764
Pathology	901	2	96	32	36	41	558	136
Pharmacology	1,606	3	180	108	62	34	869	350
Physiology	911	4	133	56	26	14	465	213
Zoology	685	3	16	5	13	23	526	99
Biosciences, n.e.c.	2,616	12	222	177	136	120	1,469	480
Psychology, total	37,583	253	1,626	3,674	3,273	2,463	24,557	1,737
Psychology, general	11,438	80	549	1,330	736	739	7,401	603
Clinical psychology	9,389	69	466	603	1,155	621	6,144	331
Psychology, n.e.c.	16,756	104	611	1,741	1,382	1,103	11,012	803
Social sciences, total	44,741	324	1,895	5,319	2,826	2,731	24,265	7,381
Agricultural economics	835	0	15	35	18	24	331	412
Anthropology (cultural & social)	4,562	56	186	216	224	311	3,148	421
Economics (except agricultural)	3,982	9	205	151	102	170	1,195	2,150
Geography	1,786	10	55	53	47	76	1,255	290
History and philosophy of science	244	2	10	9	6	10	182	25
Linguistics	1,793	9	106	32	93	91	830	632
Political science	16,518	98	700	2,788	1,258	1,015	8,749	1,910
Sociology	5,709	41	240	685	364	217	3,376	786
Sociology/anthropology	500	9	10	90	12	22	301	56
Social sciences, n.e.c.	8,812	90	368	1,260	702	795	4,898	699
Engineering, total	22,227	65	2,164	983	841	900	7,561	9,713
Aerospace engineering	485	2	34	4	17	15	210	203
Agricultural engineering	284	2	21	16	16	10	117	102
Biomedical engineering	1,241	1	160	62	32	66	550	370
Chemical engineering	1,829	8	173	89	72	46	610	831
Civil engineering	4,479	14	282	158	237	155	2,097	1,536
Electrical engineering	6,030	6	783	191	142	286	994	3,628
Engineering science	363	2	25	10	11	23	138	154
Industrial/manufacturing eng.	2,808	13	195	242	167	112	1,162	917
Mechanical engineering	1,939	9	180	81	66	66	723	814
Metallurgical/materials eng.	1,173	2	78	46	26	21	449	551
Mining engineering	36	0	1	0	2	0	29	4
Nuclear engineering	157	0	8	6	9	1	64	69
Petroleum engineering	92	0	4	1	17	8	10	52
Engineering, n.e.c.	1,311	6	220	77	27	91	408	482

See explanatory information, if any, and SOURCE at end of table.

**Table 29. Female graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 2001**

Page 2 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, health fields	61,200	332	3,813	4,597	3,202	2,974	42,861	3,421
Medical fields, total	10,644	50	1,111	1,122	951	580	5,754	1,076
Anesthesiology	494	2	22	24	7	74	363	2
Cardiology	19	0	4	0	0	1	9	5
Oncology/cancer research	142	1	20	7	4	0	84	26
Endocrinology	28	0	2	1	0	1	14	10
Gastroenterology	6	0	0	0	0	0	5	1
Hematology	2	0	0	0	0	0	2	0
Neurology	1,013	4	100	35	38	49	608	179
Obstetrics and gynecology	13	1	4	2	1	0	4	1
Ophthalmology	23	0	5	0	0	0	11	7
Otorhinolaryngology	2	0	0	0	0	0	2	0
Pediatrics	327	3	26	17	13	10	229	29
Preventive medicine/community health	7,302	32	728	954	776	347	3,751	714
Psychiatry	156	2	5	8	18	38	83	2
Pulmonary disease	5	0	2	1	0	0	2	0
Radiology	106	1	11	4	3	2	65	20
Surgery	41	0	13	0	5	0	22	1
Clinical medicine, n.e.c.	965	4	169	69	86	58	500	79
Other health fields, total	50,556	282	2,702	3,475	2,251	2,394	37,107	2,345
Dental sciences	563	1	70	19	40	13	280	140
Nursing	21,351	139	1,026	1,579	809	1,016	16,307	475
Pharmaceutical sciences	2,015	12	315	160	129	39	705	655
Speech pathology/audiology	12,187	62	298	579	556	602	9,732	358
Veterinary sciences	866	2	19	38	21	14	612	160
Health related, n.e.c.	13,574	66	974	1,100	696	710	9,471	557

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 1 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non-Hispanic	Hispanic	Other or unknown	White non-Hispanic	
Total, all institutions	319,986	1,460	19,057	18,852	14,785	17,007	167,437	81,388
New England	23,349	63	1,265	620	516	2,718	10,865	7,302
Connecticut	5,828	12	314	203	143	832	2,610	1,714
Central Connecticut State University	228	1	36	14	12	36	114	15
Connecticut College	14	0	0	0	0	0	14	0
Quinnipiac University	21	0	0	1	2	0	18	0
Rensselaer at Hartford	404	2	55	5	8	100	217	17
Sacred Heart University	206	2	39	17	5	0	126	17
Southern Connecticut State University	508	0	11	56	15	47	375	4
St. Joseph College	8	0	0	0	0	7	1	0
Trinity College	33	0	0	2	1	4	26	0
University of Bridgeport	568	0	26	9	5	9	122	397
University of Connecticut	1,503	5	35	35	38	212	608	570
University of Hartford	251	0	7	5	3	109	117	10
University of New Haven	600	1	19	31	15	118	296	120
Wesleyan University	119	0	3	3	0	1	44	68
Western Connecticut State University	50	0	1	2	0	10	36	1
Yale University	1,315	1	82	23	39	179	496	495
Maine	475	6	6	2	2	0	369	90
University of Maine	475	6	6	2	2	0	369	90
University of New England	0	0	0	0	0	0	0	0
Massachusetts	14,097	36	857	359	316	1,782	6,087	4,660
American International College	130	1	1	15	5	31	75	2
Anna Maria College	158	0	0	5	2	67	84	0
Assumption College	66	0	1	0	0	18	47	0
Boston College	407	1	15	8	7	1	229	146
Boston University	2,091	3	162	36	33	512	636	709
Brandeis University	519	0	22	5	5	130	174	183
Bridgewater State College	114	0	7	3	0	23	65	16
Clark University	326	0	2	3	3	54	130	134
Fitchburg State College	141	0	1	2	2	9	92	35
Framingham State College	5	0	0	5	0	0	0	0
Harvard University	3,334	16	276	133	121	542	1,213	1,033
MGH Institute of Health Professions	0	0	0	0	0	0	0	0
Mass College of Pharmacy/Allied Health	20	0	3	0	0	0	2	15
Massachusetts Institute of Technology	2,017	4	179	41	35	117	953	688
Mount Holyoke College	2	0	0	0	0	0	2	0
Northeastern University	689	2	15	13	14	121	238	286
Salem State College	52	0	0	2	0	20	30	0
Smith College	5	0	0	0	0	0	5	0
Tufts University	757	1	59	13	20	2	499	163
University of Massachusetts	2,070	7	62	63	55	88	1,112	683
University of Massachusetts Dartmouth	177	0	4	0	2	4	81	86
University of Massachusetts Lowell	607	0	28	7	9	41	259	263
Western New England College	0	0	0	0	0	0	0	0
Williams College	27	0	0	0	0	0	0	27
Woods Hole Oceanographic Institution	89	1	5	2	0	0	59	22
Worcester Polytechnic Institute	276	0	15	2	3	1	86	169
Worcester State College	18	0	0	1	0	1	16	0
New Hampshire	1,075	3	38	11	7	60	620	336
Dartmouth College	344	2	14	2	2	0	216	108
Rivier College	122	0	16	1	0	3	33	69
University of New Hampshire	609	1	8	8	5	57	371	159

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 2 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Rhode Island	1,381	6	38	38	40	37	790	432
Brown University	677	2	20	18	12	0	317	308
Rhode Island College	29	1	0	0	0	8	20	0
University of Rhode Island	675	3	18	20	28	29	453	124
Vermont	493	0	12	7	8	7	389	70
Goddard College	58	0	0	1	0	7	49	1
Marlboro College	0	0	0	0	0	0	0	0
Middlebury College	0	0	0	0	0	0	0	0
University of Vermont	435	0	12	6	8	0	340	69
Middle Atlantic	54,504	99	3,786	3,337	2,108	4,727	25,303	15,144
New Jersey	8,231	12	770	470	370	759	3,285	2,565
College of New Jersey, The	0	0	0	0	0	0	0	0
Drew University	0	0	0	0	0	0	0	0
Fairleigh Dickinson University	1,232	2	48	57	34	302	427	362
Kean University	421	0	32	71	42	15	190	71
Monmouth University	145	0	13	0	1	11	31	89
Montclair State University	396	1	15	22	23	30	258	47
New Jersey Institute of Technology	1,173	1	205	32	32	133	199	571
Princeton University	1,022	1	53	26	29	20	461	432
Rutgers the State Univ of New Jersey	2,643	4	222	178	116	113	1,232	778
Seton Hall University	459	3	31	49	23	95	214	44
Stevens Institute of Technology	353	0	62	12	17	35	109	118
Univ of Med and Dentistry of New Jersey	295	0	82	15	42	5	102	49
William Paterson U of NJ	92	0	7	8	11	0	62	4
New York	32,198	70	2,308	2,308	1,515	3,320	13,853	8,824
Adelphi University	265	0	9	24	12	79	124	17
Albany Medical College	79	0	18	5	1	0	46	9
Alfred University	69	0	1	1	2	0	65	0
CUNY Baruch College	638	1	97	124	61	53	165	137
CUNY Brooklyn College	764	0	167	196	34	0	197	170
CUNY City College	640	1	78	131	98	48	131	153
CUNY College of Staten Island	97	1	19	4	0	39	25	9
CUNY Graduate Center	1,497	3	72	97	89	182	623	431
CUNY Herbert H. Lehman College	91	0	6	6	4	42	7	26
CUNY Hunter College	266	0	9	33	19	39	134	32
CUNY John Jay College of Crim Justice	978	0	45	180	116	51	586	0
CUNY Queens College	556	0	128	58	28	125	105	112
Clarkson University	54	0	0	2	0	0	23	29
College of New Rochelle	122	0	0	10	6	88	17	1
College of St Rose	174	2	7	5	2	36	119	3
Columbia Univ in the City of New York	1,364	1	100	23	26	66	530	618
Cooper Union	0	0	0	0	0	0	0	0
Cornell University	2,840	8	175	77	104	79	1,177	1,220
Fordham University	453	1	17	19	39	91	199	87
Hofstra University	371	0	5	6	1	241	103	15
Iona College	106	0	7	13	5	40	38	3
Ithaca College	0	0	0	0	0	0	0	0
Long Island University	1,307	5	50	302	96	187	553	114
Manhattan College	5	0	1	0	0	4	0	0
Marist College	287	1	28	12	7	18	184	37
Mt. Sinai School of Medicine	210	0	39	7	11	0	92	61
New School University	995	3	38	94	82	114	411	253
New York Institute of Technology	450	0	50	14	1	92	53	240
New York Medical College	183	0	32	10	6	21	80	34
New York University	2,905	2	381	158	156	273	1,215	720
Niagara University	39	0	0	2	0	0	31	6
Pace University	1,161	2	130	101	43	321	303	261
Polytechnic University	335	1	51	10	3	150	45	75
Pratt Institute	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 3 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non-Hispanic	Hispanic	Other or unknown	White non-Hispanic	
New York, continued:								
Rensselaer Polytechnic Institute	542	0	10	18	4	1	256	253
Rochester Institute of Technology	381	0	14	3	12	16	185	151
Rockefeller University, The	134	0	19	5	7	0	49	54
Russell Sage College	63	0	0	2	0	15	46	0
SUNY at Albany	1,951	8	29	97	76	240	1,049	452
SUNY at Binghamton	833	4	35	29	33	82	337	313
SUNY at Buffalo	1,739	10	49	49	30	146	766	689
SUNY at New Paltz	111	0	19	1	4	24	36	27
SUNY at Stony Brook	1,720	0	98	56	57	43	602	864
SUNY College at Brockport	230	0	3	0	0	0	227	0
SUNY College at Buffalo	12	1	0	0	0	0	8	3
SUNY College at Cortland	0	0	0	0	0	0	0	0
SUNY College at Fredonia	48	0	0	0	1	0	47	0
SUNY College at Geneseo	3	0	0	0	0	0	3	0
SUNY College at Oneonta	3	0	0	0	0	2	1	0
SUNY College at Oswego	137	0	2	6	2	0	127	0
SUNY College at Plattsburgh	16	0	0	0	0	0	16	0
SUNY College at Potsdam	3	0	0	2	0	0	1	0
SUNY College of Env Science and Forestry	359	2	2	3	5	0	262	85
SUNY College of Optometry	0	0	0	0	0	0	0	0
SUNY Health Science Center at Brooklyn	53	0	10	2	2	0	11	28
SUNY Inst of Technology at Utica-Rome	69	0	2	2	0	0	56	9
SUNY Upstate Medical University	84	0	4	1	1	0	51	27
Sarah Lawrence College	62	0	6	1	2	5	43	5
St. Bonaventure University	0	0	0	0	0	0	0	0
St. John's University	547	0	37	58	37	54	278	83
Syracuse University	941	5	19	35	21	84	517	260
Teachers College, Columbia University	1,350	6	110	172	100	121	726	115
Union College	27	0	0	0	0	0	25	2
University of Rochester	858	1	32	14	23	1	397	390
Vassar College	0	0	0	0	0	0	0	0
Wagner College	9	0	0	1	1	0	7	0
Yeshiva University	612	1	48	27	45	7	343	141
Pennsylvania	14,075	17	708	559	223	648	8,165	3,755
Bloomsburg University of Pennsylvania	13	0	1	0	0	0	12	0
Bryn Mawr College	91	0	4	0	0	0	74	13
Bucknell University	19	0	0	0	0	0	19	0
California University of Pennsylvania	146	0	5	6	0	0	125	10
Carnegie Mellon University	1,638	2	50	63	21	132	633	737
Clarion University of Pennsylvania	20	0	0	1	0	0	19	0
Drexel University	838	1	58	48	12	123	447	149
Duquesne University	294	0	3	6	0	2	229	54
East Stroudsburg Univ of Pennsylvania	85	0	3	2	1	0	62	17
Edinboro University of Pennsylvania	116	0	1	3	0	1	106	5
Gannon University	23	0	1	0	0	0	12	10
Indiana University of Pennsylvania	369	0	8	19	6	50	258	28
Kutztown University of Pennsylvania	107	0	1	0	2	0	91	13
Lehigh University	264	0	17	3	4	1	180	59
MCP Hahnemann University	436	0	42	32	11	53	275	23
Mansfield University of Pennsylvania	0	0	0	0	0	0	0	0
Marywood University	166	1	1	2	1	0	159	2
Medical College of Pennsylvania, The	0	0	0	0	0	0	0	0
Millersville University of Pennsylvania	97	0	2	3	2	0	90	0
Pennsylvania State University	2,679	5	92	66	51	110	1,491	864
Philadelphia Col of Osteopathic Med	321	0	13	37	6	0	265	0
Shippensburg University of Pennsylvania	276	2	4	15	1	0	219	35
Slippery Rock University of Pennsylvania	10	0	0	0	0	2	7	1
St Joseph's University	392	0	20	28	3	57	140	144
Swarthmore College	0	0	0	0	0	0	0	0
Temple University	1,140	1	82	67	21	29	722	218
Thomas Jefferson University	197	0	15	13	6	3	138	22
Univ of Pennsylvania	1,627	0	120	40	36	23	844	564
University of Pittsburgh	1,909	5	103	83	29	24	1,046	619

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 4 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Pennsylvania, continued:								
Univ of the Sciences in Philadelphia	56	0	17	2	1	0	36	0
University of Scranton	101	0	6	0	1	6	68	20
Villanova University	414	0	9	9	7	32	209	148
West Chester University of Pennsylvania	230	0	30	11	1	0	188	0
Widener University, All Campuses	0	0	0	0	0	0	0	0
Wilkes University	1	0	0	0	0	0	1	0
East North Central	52,387	163	2,792	2,912	1,170	1,476	28,694	15,180
Illinois	19,314	44	1,432	1,443	512	775	9,467	5,641
Bradley University	107	0	2	7	0	0	15	83
Chicago School of Prof Psych	0	0	0	0	0	0	0	0
Chicago State University	228	0	3	195	7	1	21	1
DePaul University	2,954	1	450	263	116	159	1,375	590
Eastern Illinois University	128	1	1	3	2	23	98	0
Finch U of Hlth Sci/The Chicago Med Sch	196	0	43	3	2	8	119	21
Governors State University	469	1	21	166	24	16	193	48
Illinois Institute of Technology	1,636	3	178	77	23	26	470	859
Illinois State University	514	3	15	18	8	0	356	114
Loyola University of Chicago	584	0	39	14	8	48	322	153
Midwestern University	0	0	0	0	0	0	0	0
North Central College	42	0	12	1	0	0	29	0
Northeastern Illinois University	373	0	78	24	22	7	225	17
Northern Illinois University	944	1	38	25	18	67	552	243
Northwestern University	895	5	50	40	14	26	418	342
Roosevelt University	627	0	26	153	27	54	300	67
Rush University	85	0	8	3	1	0	54	19
Southern Illinois Univ at Carbondale	1,147	7	19	55	20	132	749	165
Southern Illinois Univ at Edwardsville	486	6	4	37	7	0	312	120
University of Chicago	1,935	5	176	67	67	36	966	618
University of Illinois at Chicago	1,700	4	89	109	82	48	713	655
University of Illinois at Springfield	850	2	19	110	15	0	580	124
University of Illinois at Urbana-Champaign	2,987	5	156	56	45	101	1,313	1,311
Western Illinois University	427	0	5	17	4	23	287	91
Indiana	6,263	17	240	196	127	105	3,595	1,983
Ball State University	486	0	0	2	0	1	354	129
Butler University	0	0	0	0	0	0	0	0
Indiana State University	542	2	11	35	9	12	354	119
Indiana University	2,511	9	124	78	39	60	1,597	604
Indiana Wesleyan University	0	0	0	0	0	0	0	0
Purdue University	2,025	5	85	66	59	21	915	874
Rose-Hulman Institute of Technology	10	0	0	1	0	0	3	6
University of Evansville	0	0	0	0	0	0	0	0
University of Notre Dame	591	1	19	11	18	2	291	249
University of Saint Francis	29	0	0	1	0	5	22	1
Valparaiso University	69	0	1	2	2	4	59	1
Michigan	9,689	47	517	560	231	207	5,136	2,991
Andrews University	115	0	6	19	3	12	37	38
Central Michigan University	477	1	10	10	7	2	268	179
Eastern Michigan University	658	1	50	22	16	16	253	300
Ferris State University	154	1	2	6	0	0	77	68
Grand Valley State University	253	1	15	13	4	6	195	19
Michigan State University	2,227	13	62	84	56	23	1,129	860
Michigan Technological University	237	0	3	6	4	6	96	122
Northern Michigan University	147	7	4	4	0	5	127	0
Oakland University	136	1	13	6	1	5	87	23
University of Detroit Mercy	258	2	8	30	0	9	150	59
University of Michigan	2,659	12	187	136	114	40	1,493	677
Wayne State University	1,270	4	143	137	12	83	579	312
Western Michigan University	1,098	4	14	87	14	0	645	334

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 5 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Ohio	11,399	34	348	579	179	237	6,740	3,282
Air Force Institute of Technology	93	0	0	0	0	0	45	48
Antioch University	1,178	5	22	40	45	57	984	25
Bowling Green State University	490	1	12	14	9	4	266	184
Case Western Reserve University	734	4	118	30	12	5	409	156
Cleveland State University	664	0	7	73	5	19	259	301
John Carroll University	51	0	2	2	0	0	47	0
Kent State University	777	4	11	29	5	41	410	277
Medical College of Ohio	87	0	9	1	2	0	46	29
Miami University (OH)	533	2	17	17	6	0	387	104
Ohio State University	2,627	2	84	74	42	39	1,357	1,029
Ohio University	685	3	6	16	6	0	364	290
Union Institute, The	374	4	9	43	7	32	273	6
University of Akron	802	1	9	79	12	12	442	247
University of Cincinnati	888	1	21	47	8	12	544	255
University of Dayton	152	0	2	8	0	1	107	34
University of Toledo	428	1	7	29	2	4	243	142
Wright State University	579	4	11	56	13	3	360	132
Xavier University	142	1	1	13	3	0	124	0
Youngstown State University	115	1	0	8	2	8	73	23
Wisconsin	5,722	21	255	134	121	152	3,756	1,283
Marquette University	510	2	94	23	11	29	260	91
Medical College of Wisconsin	142	0	11	2	0	0	95	34
Milwaukee School of Engineering	0	0	0	0	0	0	0	0
University of Wisconsin-Eau Claire	21	0	1	0	0	0	20	0
University of Wisconsin-Green Bay	54	3	3	0	0	0	42	6
University of Wisconsin-La Crosse	52	0	2	0	0	0	50	0
University of Wisconsin-Madison	3,265	7	97	41	87	113	2,018	902
University of Wisconsin-Milwaukee	1,387	8	43	63	20	8	1,016	229
University of Wisconsin-Oshkosh	140	1	3	1	2	2	115	16
University of Wisconsin-Platteville	4	0	0	0	0	0	4	0
University of Wisconsin-River Falls	0	0	0	0	0	0	0	0
University of Wisconsin-Stevens Point	57	0	1	1	0	0	55	0
University of Wisconsin-Stout	53	0	0	0	0	0	48	5
University of Wisconsin-Whitewater	37	0	0	3	1	0	33	0
West North Central	21,589	139	721	749	377	857	12,773	5,973
Iowa	3,534	11	63	94	62	69	1,822	1,413
Des Moines Univ-Osteopathic Med Ctr	0	0	0	0	0	0	0	0
Drake University	221	0	6	18	6	1	188	2
Iowa State University	1,796	4	22	37	20	65	876	772
Loras College	13	0	0	0	0	0	13	0
Maharishi University of Management	215	0	1	2	0	0	16	196
Marycrest International Univ	0	0	0	0	0	0	0	0
University of Iowa	1,160	7	33	22	35	2	633	428
University of Northern Iowa	129	0	1	15	1	1	96	15
Kansas	4,304	40	106	118	75	262	2,561	1,142
Emporia State University	195	1	0	5	0	11	166	12
Fort Hays State University	52	1	4	3	0	0	44	0
Kansas State University	1,393	7	35	30	18	12	737	554
Pittsburg State University	156	0	0	0	0	10	126	20
University of Kansas	1,974	29	43	53	49	229	1,198	373
Washburn University of Topeka	19	0	1	1	1	0	16	0
Wichita State University	515	2	23	26	7	0	274	183

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 6 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Minnesota	5,292	23	171	269	113	192	3,198	1,326
Bemidji State University	25	1	0	0	0	0	22	2
Mayo Graduate School	130	1	9	2	16	8	67	27
Minnesota State University at Mankato	292	1	4	0	1	77	90	119
Minnesota State University Moorhead	48	0	0	0	0	0	48	0
St. Cloud State University	137	0	0	1	0	0	101	35
St. Mary's University of Minnesota	67	0	0	5	0	15	47	0
University of Minnesota	3,785	10	144	74	62	24	2,343	1,128
Walden University	808	10	14	187	34	68	480	15
Missouri	4,741	17	157	184	82	106	2,965	1,230
Central Missouri State University	244	0	4	11	1	20	173	35
Forest Institute of Professional Psych	251	1	5	9	3	0	233	0
Kirksville College of Osteopathic Med	0	0	0	0	0	0	0	0
Lincoln University	23	0	0	7	0	0	14	2
Northwest Missouri State University	40	0	0	0	0	0	40	0
Saint Louis University	407	1	9	37	8	6	315	31
Southeast Missouri State University	56	0	0	3	0	0	46	7
Southwest Missouri State University	295	1	5	5	5	3	252	24
Truman State University	7	0	0	0	0	0	4	3
University of Missouri-Columbia	1,111	5	31	43	24	30	621	357
University of Missouri-Kansas City	532	3	10	22	12	11	238	236
University of Missouri-Rolla	247	0	3	3	0	6	109	126
University of Missouri-St. Louis	479	4	27	23	12	17	276	120
Washington University	1,049	2	63	21	17	13	644	289
Nebraska	2,153	21	54	63	34	27	1,309	645
Creighton University	108	2	5	1	3	0	55	42
University of Nebraska at Kearney	51	1	0	0	0	1	49	0
University of Nebraska at Lincoln	1,134	13	30	27	18	0	645	401
University of Nebraska at Omaha	788	5	18	34	13	26	513	179
University of Nebraska Medical Center	72	0	1	1	0	0	47	23
North Dakota	919	13	119	17	3	154	502	111
North Dakota State University	499	3	109	15	3	9	290	70
University of North Dakota	420	10	10	2	0	145	212	41
South Dakota	646	14	51	4	8	47	416	106
South Dakota School of Mines and Tech	110	2	1	0	1	0	62	44
South Dakota State University	336	6	22	1	1	18	235	53
University of South Dakota	200	6	28	3	6	29	119	9
South Atlantic	51,890	153	2,584	5,196	1,800	1,301	29,465	11,391
Delaware	1,065	4	34	60	33	50	594	290
Delaware State University	18	0	2	7	0	1	7	1
University of Delaware	1,047	4	32	53	33	49	587	289
District of Columbia	6,196	20	342	1,061	205	387	2,861	1,320
American University	1,793	10	55	193	78	196	833	428
Catholic University of America	305	1	11	13	8	12	208	52
Gallaudet University	0	0	0	0	0	0	0	0
George Washington University	2,584	4	200	141	94	157	1,478	510
Georgetown University	591	1	56	8	10	0	303	213
Howard University	614	1	15	457	2	1	21	117
University of the District of Columbia	309	3	5	249	13	21	18	0

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 7 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Florida	11,629	45	469	988	983	345	6,493	2,306
Barry University	185	1	11	53	48	17	42	13
Embry-Riddle Aeronautical University	78	0	1	7	3	1	36	30
Florida A&M University	172	0	6	136	3	20	7	0
Florida Atlantic University	684	2	50	52	53	1	394	132
Florida Institute of Technology	685	1	28	27	19	61	346	203
Florida International University	850	0	20	100	245	0	289	196
Florida State University	1,217	3	69	79	30	1	712	323
Jacksonville University	0	0	0	0	0	0	0	0
Nova Southeastern University	1,924	8	57	239	191	180	1,137	112
University of Central Florida	1,121	2	50	84	79	19	757	130
University of Florida	2,664	11	88	95	132	19	1,484	835
University of Miami	765	8	33	41	113	19	344	207
University of South Florida	1,008	2	50	56	54	5	725	116
University of West Florida	276	7	6	19	13	2	220	9
Georgia	5,817	10	381	739	96	65	3,187	1,339
Augusta State University	27	0	1	5	0	0	21	0
Clark Atlanta University	184	0	2	152	3	4	0	23
Emory University	676	2	41	42	11	3	438	139
Fort Valley State University	0	0	0	0	0	0	0	0
Georgia College and State University	187	1	4	43	2	0	104	33
Georgia Institute of Technology	1,187	0	55	73	21	7	593	438
Georgia Southern University	168	1	3	40	1	2	108	13
Georgia State University	1,113	2	178	215	22	17	479	200
Institute of Paper Science & Technology	0	0	0	0	0	0	0	0
Medical College of Georgia	52	0	1	3	0	0	34	14
Mercer University	25	0	0	0	0	25	0	0
Morehouse School of Medicine	18	0	0	17	0	0	1	0
State University of West Georgia	159	1	10	27	5	0	110	6
University of Georgia	1,775	2	84	61	27	5	1,123	473
Valdosta State University	246	1	2	61	4	2	176	0
Maryland	6,931	15	401	694	150	201	3,464	2,006
Coppin State College	81	1	0	76	0	0	1	3
Frostburg State University	71	0	0	0	2	4	60	5
Hood College	261	3	10	9	4	16	210	9
Johns Hopkins University	1,523	1	174	50	40	9	761	488
Loyola College	178	0	4	10	4	19	136	5
Morgan State University	67	0	0	37	0	1	5	24
Towson University	571	4	40	98	5	15	270	139
Uniformed Serv Univ of the Hlth Sciences	74	0	8	5	6	4	48	3
University of Baltimore	334	1	6	131	8	17	151	20
University of Maryland at College Park	2,485	5	83	154	60	89	1,215	879
University of Maryland, Baltimore	254	0	21	16	5	3	141	68
University of Maryland, Baltimore County	892	0	55	77	14	24	433	289
University of Maryland, Eastern Shore	127	0	0	31	2	0	22	72
Washington College	13	0	0	0	0	0	11	2
North Carolina	8,002	25	318	854	133	56	5,024	1,592
Appalachian State University	261	0	1	14	0	0	232	14
Duke University	1,041	1	21	34	20	5	649	311
East Carolina University	415	1	15	27	4	44	306	18
North Carolina A&T State University	222	0	7	138	2	0	37	38
North Carolina Central University	350	2	17	299	2	1	29	0
North Carolina State University	2,134	5	99	109	48	0	1,310	563
Univ of North Carolina at Chapel Hill	1,976	11	115	110	38	0	1,367	335
Univ of North Carolina at Charlotte	614	1	26	53	3	0	348	183
Univ of North Carolina at Greensboro	396	1	10	45	5	6	269	60
Univ of North Carolina at Wilmington	186	0	2	3	4	0	162	15
Wake Forest University	274	1	4	15	5	0	200	49
Western Carolina University	133	2	1	7	2	0	115	6

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 8 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
South Carolina	2,166	4	63	90	30	37	1,437	505
Clemson University	967	3	6	27	6	26	581	318
College of Charleston	194	0	10	3	2	2	162	15
Furman University	10	0	1	0	0	0	9	0
Medical University of South Carolina	203	1	13	7	0	3	153	26
University of South Carolina	725	0	33	44	22	6	479	141
Wintrop University	67	0	0	9	0	0	53	5
Virginia	8,628	25	550	688	163	121	5,418	1,663
College of William and Mary	343	0	9	12	4	0	248	70
Eastern Virginia Medical School	126	1	14	13	2	0	91	5
George Mason University	2,340	7	226	121	52	0	1,312	622
Hampton University	106	0	12	88	0	0	6	0
Hollins University	0	0	0	0	0	0	0	0
Institute of Textile Technology	0	0	0	0	0	0	0	0
James Madison University	230	1	4	10	4	5	191	15
Marymount University	181	1	10	25	7	19	102	17
Old Dominion University	937	5	19	98	19	16	489	291
Radford University	153	1	3	2	1	0	146	0
University of Richmond	13	0	0	0	0	0	13	0
University of Virginia	1,100	2	67	32	17	43	763	176
Virginia Commonwealth University	997	1	85	132	15	6	706	52
Virginia Polytechnic Inst and State Univ	2,035	6	99	96	42	32	1,345	415
Virginia State University	67	0	2	59	0	0	6	0
West Virginia	1,456	5	26	22	7	39	987	370
Marshall University	515	2	7	11	1	39	425	30
University of Charleston	0	0	0	0	0	0	0	0
West Virginia Graduate College	0	0	0	0	0	0	0	0
West Virginia University	941	3	19	11	6	0	562	340
West Virginia University Institute of Tech	0	0	0	0	0	0	0	0
East South Central	12,871	39	458	1,396	128	144	7,735	2,971
Alabama	3,595	17	128	464	41	22	2,031	892
Alabama A&M University	131	0	2	68	0	0	0	61
Alabama State University	16	0	0	14	0	0	2	0
Auburn University	1,068	8	13	108	18	17	675	229
Jacksonville State University	191	1	3	62	1	3	121	0
Troy State University Montgomery	33	0	3	7	0	1	22	0
Tuskegee University	49	0	1	44	0	0	0	4
University of Alabama, The	617	0	21	45	6	0	398	147
University of Alabama at Birmingham, The	858	4	68	78	11	0	476	221
University of Alabama in Huntsville, The	341	2	14	23	3	1	176	122
University of Montevallo	0	0	0	0	0	0	0	0
University of South Alabama	291	2	3	15	2	0	161	108
Kentucky	3,079	7	122	117	23	85	1,886	839
Eastern Kentucky University	231	0	28	8	2	14	179	0
Morehead State University	64	1	0	0	0	0	60	3
Murray State University	197	1	3	12	1	2	149	29
Spalding University	131	0	4	5	1	0	121	0
University of Kentucky	1,385	3	36	54	7	62	747	476
University of Louisville	741	1	22	28	12	1	449	228
Western Kentucky University	330	1	29	10	0	6	181	103
Mississippi	2,143	7	32	338	20	2	1,255	489
Jackson State University	258	1	9	195	1	0	38	14
Mississippi State University	830	2	7	65	10	0	512	234
Mississippi University for Women	0	0	0	0	0	0	0	0
University of Mississippi	523	4	9	51	2	0	285	172

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 9 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non-Hispanic	Hispanic	Other or unknown	White non-Hispanic	
Mississippi, continued:								
University of Southern Mississippi	532	0	7	27	7	2	420	69
Tennessee	4,054	8	176	477	44	35	2,563	751
Austin Peay State University	68	0	0	8	0	4	55	1
East Tennessee State University	256	1	41	13	0	22	170	9
Fisk University	27	0	0	24	0	0	3	0
Meharry Medical College	137	0	6	119	0	1	5	6
Middle Tennessee State University	271	1	34	17	6	2	211	0
Tennessee State University	315	0	9	141	5	0	116	44
Tennessee Technological University	83	0	0	1	1	0	64	17
University of Memphis, The	586	1	19	49	1	0	346	170
University of Tennessee at Chattanooga	196	0	2	23	1	0	157	13
University of Tennessee at Knoxville	1,279	3	22	48	15	4	954	233
University of Tennessee Health Sci Ctr	140	0	3	7	0	0	60	70
Vanderbilt University	696	2	40	27	15	2	422	188
West South Central	29,741	213	1,460	2,366	1,673	496	14,671	8,862
Arkansas	1,464	10	53	98	16	1	1,005	281
Arkansas State University	148	0	3	14	2	1	107	21
University of Arkansas at Little Rock	235	0	0	29	0	0	150	56
University of Arkansas Main	838	10	41	30	11	0	572	174
University of Arkansas, Med Sci Campus	105	0	9	8	3	0	58	27
University of Central Arkansas	138	0	0	17	0	0	118	3
Louisiana	4,551	8	134	1,034	75	67	2,088	1,145
Grambling State University	126	0	1	123	0	2	0	0
Louisiana State University	2,163	7	51	196	44	61	1,168	636
Louisiana Tech University	132	0	1	5	1	0	28	97
Loyola University New Orleans	0	0	0	0	0	0	0	0
McNeese State University	104	0	0	13	1	0	74	16
Nicholls State University	108	1	0	45	0	0	62	0
Northwestern State University	38	0	1	0	1	0	33	3
Southeastern Louisiana University	59	0	1	4	1	0	53	0
Southern University A & M, All Campuses	697	0	46	581	3	0	61	6
Tulane University	609	0	28	42	23	4	391	121
Univ of Louisiana at Lafayette	385	0	4	3	1	0	125	252
Univ of Louisiana at Monroe, The	130	0	1	22	0	0	93	14
Xavier University of Louisiana	0	0	0	0	0	0	0	0
Oklahoma	2,859	123	91	133	50	14	1,636	812
Cameron University	139	4	2	30	6	0	93	4
East Central University	5	0	0	2	0	0	3	0
Northeastern State University	141	31	0	8	1	1	100	0
Oklahoma State University	981	43	16	20	16	0	495	391
Southwestern Oklahoma State University	0	0	0	0	0	0	0	0
University of Oklahoma	1,397	41	68	73	26	2	847	340
University of Tulsa	196	4	5	0	1	11	98	77
Texas	20,867	72	1,182	1,101	1,532	414	9,942	6,624
Abilene Christian University	79	0	2	4	2	3	59	9
Angelo State University	117	1	1	2	16	0	96	1
Baylor College of Dentistry	16	0	3	0	2	0	11	0
Baylor College of Medicine	352	0	28	11	20	0	163	130
Baylor University	298	0	10	7	14	9	186	72
Lamar University	223	0	1	5	3	21	52	141
Midwestern State University	119	0	2	4	7	0	74	32
Prairie View A&M University	134	0	7	104	0	0	23	0
Rice University	568	1	29	20	25	3	267	223
Sam Houston State University	386	2	3	16	24	0	281	60

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 10 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Texas, continued:								
Southern Methodist University	322	1	28	5	8	0	162	118
Southwest Texas State University	691	3	29	31	81	6	397	144
St. Mary's University	324	1	12	16	130	8	137	20
Stephen F. Austin State University	241	2	9	8	9	0	181	32
Sul Ross State University	86	1	1	1	17	0	65	1
Tarleton State University	63	0	0	1	0	0	62	0
Tarleton University System Center	262	3	15	66	16	0	160	2
Texas A&M Univ	3,160	4	84	34	149	19	1,754	1,116
Texas A&M Univ-Commerce	427	3	10	15	4	0	139	256
Texas A&M Univ-Corpus Christi	302	0	12	5	60	0	176	49
Texas A&M Univ-Kingsville	212	0	1	5	76	0	83	47
Texas A&M Univ-Sys Health Science Cent	87	1	9	1	4	0	49	23
Texas Christian University	92	1	2	1	4	1	59	24
Texas Southern University	345	0	10	285	11	3	16	20
Texas Tech University	851	3	12	5	37	11	521	262
Texas Woman's University	414	1	21	29	36	0	297	30
Trinity University	0	0	0	0	0	0	0	0
Univ of Houston	1,142	3	282	125	34	34	312	352
Univ of Houston, Clear Lake	1,091	2	129	88	71	0	463	338
Univ of Houston, Victoria	33	0	0	2	7	0	24	0
Univ of North Texas	1,388	13	29	45	64	65	756	416
Univ of North Texas Hlth Sci Ctr at Ft W	0	0	0	0	0	0	0	0
Univ of Texas at Arlington	1,129	4	69	45	49	0	435	527
Univ of Texas at Austin	2,157	5	55	20	93	205	978	801
Univ of Texas at Dallas	1,316	3	125	35	23	0	294	836
Univ of Texas at El Paso	215	0	8	10	87	0	65	45
Univ of Texas at San Antonio	302	4	9	3	73	0	129	84
Univ of Texas at Tyler	123	2	2	10	5	0	95	9
Univ of Texas Houston Hlth Sci Ctr	595	3	58	19	37	5	311	162
Univ of Texas M.D. Anderson Cancer Ctr	0	0	0	0	0	0	0	0
Univ of Texas Med Branch at Galveston	152	1	12	3	12	2	79	43
Univ of Texas of the Permian Basin	55	0	1	0	5	0	49	0
Univ of Texas-Pan American	201	1	9	2	132	0	34	23
Univ of Texas San Antonio Hlth Sci Ctr	184	0	17	2	22	1	80	62
Univ of Texas SW Medical Ctr at Dallas	375	0	34	5	22	12	212	90
University of the Incarnate Word	56	0	1	2	23	6	20	4
Wayland Baptist University	6	0	0	0	1	0	5	0
West Texas A&M University	176	3	1	4	17	0	131	20
Mountain	20,026	218	685	270	889	997	13,061	3,906
Arizona	4,636	72	138	85	233	92	2,860	1,156
Arizona State University	1,916	28	55	44	84	36	1,113	556
Northern Arizona University	517	21	8	10	42	6	410	20
University of Arizona	2,203	23	75	31	107	50	1,337	580
Colorado	6,164	46	219	110	234	388	4,093	1,074
Colorado School of Mines	390	1	5	5	7	11	241	120
Colorado State University	1,644	14	30	11	43	106	1,113	327
National Technological University	117	0	22	6	5	10	72	2
University of Colorado	3,173	26	127	70	147	229	2,068	506
University of Denver	633	4	30	16	24	19	425	115
University of Northern Colorado	207	1	5	2	8	13	174	4
University of Southern Colorado	0	0	0	0	0	0	0	0
Idaho	1,108	6	19	4	24	7	849	199
Boise State University	153	1	3	1	4	7	131	6
Idaho State University	213	3	2	0	4	0	192	12
University of Idaho	742	2	14	3	16	0	526	181

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 11 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Montana	1,102	25	24	1	8	10	954	80
Montana State University-Bozeman	447	3	11	0	1	0	386	46
Montana Tech of the Univ of Montana	18	0	0	0	0	0	16	2
University of Montana, The	637	22	13	1	7	10	552	32
Nevada	1,211	10	53	25	52	67	808	196
University of Nevada Las Vegas	421	1	21	22	15	16	306	40
University of Nevada, Reno	790	9	32	3	37	51	502	156
New Mexico	2,390	38	70	30	282	310	1,153	507
Eastern New Mexico University	62	1	2	1	8	0	46	4
New Mexico Highlands University	78	1	11	2	16	2	43	3
New Mexico Institute of Mining and Tech	162	2	0	0	8	0	104	48
New Mexico State University	704	8	12	8	93	246	129	208
University of New Mexico	1,384	26	45	19	157	62	831	244
Utah	2,759	17	141	13	46	121	1,805	616
Brigham Young University	797	3	48	7	22	18	604	95
University of Utah	1,120	5	73	6	17	4	729	286
Utah State University	842	9	20	0	7	99	472	235
Wyoming	656	4	21	2	10	2	539	78
University of Wyoming	656	4	21	2	10	2	539	78
Pacific	50,782	373	5,249	2,006	3,431	4,288	24,855	10,580
Alaska	513	11	9	3	2	13	391	84
University of Alaska Anchorage	100	1	1	1	2	2	93	0
University of Alaska Fairbanks	397	10	8	2	0	10	286	81
University of Alaska Southeast	16	0	0	0	0	1	12	3
California	41,384	285	4,661	1,912	3,237	3,567	19,286	8,436
Alliant University	0	0	0	0	0	0	0	0
Azusa Pacific University	289	1	33	19	32	5	119	80
Biola University	39	0	8	0	2	0	24	5
Calif Institute of Integral Studies	243	1	0	3	3	0	228	8
Calif Inst of Technology	703	4	49	4	19	0	320	307
Calif Poly State Univ, San Luis Obispo	264	0	0	3	0	0	216	45
Calif Sch of Prof Psych-Alameda	197	1	30	13	10	16	108	19
Calif Sch of Prof Psych-Fresno	312	10	22	14	27	37	202	0
Calif Sch of Prof Psych-Los Angeles	583	4	82	50	75	96	274	2
Calif Sch of Prof Psych-San Diego	849	10	62	35	52	92	519	79
Calif State Poly Univ, Pomona	381	3	60	13	54	71	131	49
Calif State Univ, Bakersfield	106	0	2	7	25	0	71	1
Calif State Univ, Chico	399	3	17	5	25	43	195	111
Calif State Univ, Dominguez Hills	449	4	27	214	74	42	84	4
Calif State Univ, Fresno	864	7	90	28	215	81	326	117
Calif State Univ, Fullerton	1,034	2	225	23	110	100	353	221
Calif State Univ, Hayward	990	6	145	95	53	169	185	337
Calif State Univ, Long Beach	703	4	117	17	70	54	349	92
Calif State Univ, Los Angeles	830	5	139	58	284	91	190	63
Calif State Univ, Northridge	528	2	68	16	39	109	211	83
Calif State Univ, Sacramento	952	7	109	56	98	134	435	113
Calif State Univ, San Bernardino	513	6	42	50	75	44	207	89
Calif State Univ, Stanislaus	135	3	8	5	26	22	71	0
Chapman University	310	3	11	24	19	28	216	9
Charles R. Drew Univ of Medicine & Sci	0	0	0	0	0	0	0	0
Claremont Graduate University	607	2	58	37	42	52	255	161
Dominican University of California	70	0	0	3	3	13	50	1
Fielding Institute, The	874	12	17	86	42	32	678	7

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 12 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
California, continued:								
Fuller Theological Seminary	327	2	46	18	16	11	193	41
Golden Gate University	235	0	32	20	19	33	74	57
Harvey Mudd College	0	0	0	0	0	0	0	0
Humboldt State University	231	2	8	2	9	62	141	7
John F Kennedy University	536	5	33	31	29	27	411	0
Loma Linda University	420	1	56	53	62	8	199	41
Loyola Marymount University	35	0	7	6	1	3	11	7
National University	1,662	17	115	246	280	78	812	114
Naval Postgraduate School	466	0	0	1	0	0	218	247
Occidental College	1	0	0	0	1	0	0	0
Pacific Graduate School of Psychology	288	3	29	16	19	19	190	12
Pacific States University	18	0	0	0	0	0	0	18
Pepperdine University	678	4	42	53	68	151	343	17
RAND Graduate School of Policy Studies	69	0	4	1	1	0	29	34
San Diego State University	1,320	14	161	52	124	126	707	136
San Francisco State University	1,124	12	154	87	79	258	418	116
San Jose State University	638	3	255	21	50	68	213	28
Santa Clara University	306	0	47	3	15	44	97	100
Sonoma State University	59	0	0	2	13	9	33	2
Stanford University	2,125	8	267	45	53	69	925	758
University of Calif, Berkeley	3,058	23	278	67	154	172	1,717	647
University of Calif, Davis	2,228	22	211	27	73	209	1,154	532
University of Calif, Irvine	1,165	3	183	9	69	171	507	223
University of Calif, Los Angeles	3,053	24	514	82	192	184	1,281	776
University of Calif, Riverside	852	3	63	10	52	68	343	313
University of Calif, San Diego	1,571	14	176	18	75	135	864	289
University of Calif, San Francisco	344	2	80	6	21	5	213	17
University of Calif, Santa Barbara	1,267	6	106	11	66	130	722	226
University of Calif, Santa Cruz	696	9	39	11	40	69	358	170
University of La Verne	217	2	26	42	32	12	90	13
University of the Pacific	46	0	19	2	2	1	22	0
University of Redlands	20	0	1	2	2	2	13	0
University of San Diego	65	0	6	1	4	7	45	2
University of San Francisco	154	0	11	1	1	10	29	102
University of Southern California	2,568	6	250	66	121	63	674	1,388
West Coast University	0	0	0	0	0	0	0	0
Wright Institute	318	0	21	22	20	32	223	0
Hawaii	1,295	1	225	7	26	104	477	455
University of Hawaii at Manoa	1,295	1	225	7	26	104	477	455
Oregon	3,078	31	95	27	58	331	1,786	750
Oregon Grad Inst School of Science & Eng	293	0	13	0	3	172	25	80
Oregon Health & Science University	174	1	17	1	3	9	116	27
Oregon State University	1,047	4	28	3	12	41	593	366
Pacific University	0	0	0	0	0	0	0	0
Portland State University	797	11	27	19	22	45	540	133
Southern Oregon University	89	1	0	0	2	12	69	5
University of Oregon	678	14	10	4	16	52	443	139
University of Portland	0	0	0	0	0	0	0	0
Washington	4,512	45	259	57	108	273	2,915	855
Central Washington University	99	5	2	0	3	3	84	2
Eastern Washington University	200	9	3	3	6	32	133	14
Gonzaga University	0	0	0	0	0	0	0	0
Pacific Lutheran University	40	0	2	2	1	8	24	3
Saint Martin's College	0	0	0	0	0	0	0	0
Seattle University	168	3	9	11	3	28	108	6
University of Washington	2,969	20	215	28	70	192	1,858	586
Walla Walla College	4	0	0	0	0	0	4	0
Washington State University	855	8	25	12	23	2	555	230
Western Washington University	177	0	3	1	2	8	149	14

See explanatory information, if any, and SOURCE at end of table.

Table 30. Graduate science students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 13 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Washington, continued:								
Whitworth College	0	0	0	0	0	0	0	0
Outlying Areas	2,847	0	57	0	2,693	3	15	79
Guam	73	0	57	0	1	1	14	0
University of Guam	73	0	57	0	1	1	14	0
Puerto Rico	2,774	0	0	0	2,692	2	1	79
Carlos Albizu University	616	0	0	0	616	0	0	0
Ponce School of Medicine	23	0	0	0	22	0	1	0
Pontifical Cath Univ of Puerto Rico, The	397	0	0	0	397	0	0	0
Univ of Puerto Rico Mayaguez Campus	454	0	0	0	454	0	0	0
Univ of Puerto Rico Med Sci Campus	107	0	0	0	107	0	0	0
Univ of Puerto Rico Rio Piedras Campus	1,177	0	0	0	1,096	2	0	79

NOTE: Includes medical schools.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 1 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non-Hispanic	Hispanic	Other or unknown	White non-Hispanic	
Total, all institutions	109,506	227	8,602	2,921	3,198	4,328	38,320	51,910
New England	7,964	11	493	135	146	735	3,032	3,412
Connecticut	1,109	0	31	15	22	134	349	558
Central Connecticut State University	0	0	0	0	0	0	0	0
Connecticut College	0	0	0	0	0	0	0	0
Quinnipiac University	0	0	0	0	0	0	0	0
Rensselaer at Hartford	229	0	19	3	14	44	145	4
Sacred Heart University	0	0	0	0	0	0	0	0
Southern Connecticut State University	0	0	0	0	0	0	0	0
St. Joseph College	0	0	0	0	0	0	0	0
Trinity College	0	0	0	0	0	0	0	0
University of Bridgeport	196	0	0	2	0	3	5	186
University of Connecticut	402	0	5	2	4	39	116	236
University of Hartford	101	0	2	1	2	25	28	43
University of New Haven	73	0	1	6	1	12	30	23
Wesleyan University	0	0	0	0	0	0	0	0
Western Connecticut State University	0	0	0	0	0	0	0	0
Yale University	108	0	4	1	1	11	25	66
Maine	130	1	0	0	2	1	73	53
University of Maine	130	1	0	0	2	1	73	53
University of New England	0	0	0	0	0	0	0	0
Massachusetts	6,094	9	438	108	115	594	2,280	2,550
American International College	0	0	0	0	0	0	0	0
Anna Maria College	21	0	0	0	0	11	10	0
Assumption College	0	0	0	0	0	0	0	0
Boston College	0	0	0	0	0	0	0	0
Boston University	388	0	13	5	8	102	82	178
Brandeis University	0	0	0	0	0	0	0	0
Bridgewater State College	0	0	0	0	0	0	0	0
Clark University	0	0	0	0	0	0	0	0
Fitchburg State College	18	0	0	0	0	1	17	0
Framingham State College	0	0	0	0	0	0	0	0
Harvard University	214	1	21	3	1	8	91	89
MGH Institute of Health Professions	0	0	0	0	0	0	0	0
Mass College of Pharmacy/Allied Health	0	0	0	0	0	0	0	0
Massachusetts Institute of Technology	2,464	4	256	52	57	177	975	943
Mount Holyoke College	0	0	0	0	0	0	0	0
Northeastern University	901	0	43	17	26	196	184	435
Salem State College	0	0	0	0	0	0	0	0
Smith College	0	0	0	0	0	0	0	0
Tufts University	383	1	37	9	5	18	242	71
University of Massachusetts	469	2	11	3	8	19	142	284
University of Massachusetts Dartmouth	120	0	0	1	1	2	20	96
University of Massachusetts Lowell	654	1	40	10	3	49	247	304
Western New England College	62	0	4	2	1	5	49	1
Williams College	0	0	0	0	0	0	0	0
Woods Hole Oceanographic Institution	25	0	0	0	1	0	17	7
Worcester Polytechnic Institute	375	0	13	6	4	6	204	142
Worcester State College	0	0	0	0	0	0	0	0
New Hampshire	262	0	12	3	2	5	137	103
Dartmouth College	103	0	7	3	1	0	44	48
Rivier College	0	0	0	0	0	0	0	0
University of New Hampshire	159	0	5	0	1	5	93	55

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 2 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Rhode Island	265	0	8	5	4	1	117	130
Brown University	95	0	2	3	0	0	30	60
Rhode Island College	0	0	0	0	0	0	0	0
University of Rhode Island	170	0	6	2	4	1	87	70
Vermont	104	1	4	4	1	0	76	18
Goddard College	0	0	0	0	0	0	0	0
Marlboro College	19	0	0	1	0	0	18	0
Middlebury College	0	0	0	0	0	0	0	0
University of Vermont	85	1	4	3	1	0	58	18
Middle Atlantic	14,387	14	949	390	258	818	4,685	7,273
New Jersey	3,129	3	272	129	103	213	903	1,506
College of New Jersey, The	0	0	0	0	0	0	0	0
Drew University	0	0	0	0	0	0	0	0
Fairleigh Dickinson University	101	0	3	1	1	5	5	86
Kean University	0	0	0	0	0	0	0	0
Monmouth University	118	0	15	10	5	14	49	25
Montclair State University	0	0	0	0	0	0	0	0
New Jersey Institute of Technology	1,099	1	106	74	62	92	255	509
Princeton University	463	1	41	9	4	8	164	236
Rutgers the State Univ of New Jersey	739	1	50	16	11	23	189	449
Seton Hall University	0	0	0	0	0	0	0	0
Stevens Institute of Technology	605	0	56	19	20	71	240	199
Univ of Med and Dentistry of New Jersey	4	0	1	0	0	0	1	2
William Paterson U of NJ	0	0	0	0	0	0	0	0
New York	6,748	9	455	167	104	472	2,051	3,490
Adelphi University	0	0	0	0	0	0	0	0
Albany Medical College	0	0	0	0	0	0	0	0
Alfred University	79	0	0	1	0	0	45	33
CUNY Baruch College	0	0	0	0	0	0	0	0
CUNY Brooklyn College	0	0	0	0	0	0	0	0
CUNY City College	201	1	27	26	8	44	17	78
CUNY College of Staten Island	0	0	0	0	0	0	0	0
CUNY Graduate Center	131	0	2	9	2	16	7	95
CUNY Herbert H. Lehman College	0	0	0	0	0	0	0	0
CUNY Hunter College	0	0	0	0	0	0	0	0
CUNY John Jay College of Crim Justice	0	0	0	0	0	0	0	0
CUNY Queens College	0	0	0	0	0	0	0	0
Clarkson University	137	0	1	0	1	1	52	82
College of New Rochelle	0	0	0	0	0	0	0	0
College of St Rose	0	0	0	0	0	0	0	0
Columbia Univ in the City of New York	610	1	72	6	10	45	102	374
Cooper Union	32	0	5	2	2	0	17	6
Cornell University	839	2	90	9	18	11	245	464
Fordham University	0	0	0	0	0	0	0	0
Hofstra University	0	0	0	0	0	0	0	0
Iona College	0	0	0	0	0	0	0	0
Ithaca College	0	0	0	0	0	0	0	0
Long Island University	0	0	0	0	0	0	0	0
Manhattan College	139	0	9	6	8	48	57	11
Marist College	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0
New School University	0	0	0	0	0	0	0	0
New York Institute of Technology	183	0	16	14	6	35	68	44
New York Medical College	0	0	0	0	0	0	0	0
New York University	0	0	0	0	0	0	0	0
Niagara University	0	0	0	0	0	0	0	0
Pace University	0	0	0	0	0	0	0	0
Polytechnic University	485	1	72	35	11	190	74	102
Pratt Institute	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 3 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
New York, continued:								
Rensselaer Polytechnic Institute	1,209	1	64	18	13	4	545	564
Rochester Institute of Technology	208	0	8	5	4	8	78	105
Rockefeller University, The	0	0	0	0	0	0	0	0
Russell Sage College	0	0	0	0	0	0	0	0
SUNY at Albany	0	0	0	0	0	0	0	0
SUNY at Binghamton	304	0	18	10	1	26	83	166
SUNY at Buffalo	766	3	25	14	6	26	230	462
SUNY at New Paltz	8	0	0	0	0	0	0	8
SUNY at Stony Brook	374	0	25	5	6	16	102	220
SUNY College at Brockport	0	0	0	0	0	0	0	0
SUNY College at Buffalo	0	0	0	0	0	0	0	0
SUNY College at Cortland	0	0	0	0	0	0	0	0
SUNY College at Fredonia	0	0	0	0	0	0	0	0
SUNY College at Geneseo	0	0	0	0	0	0	0	0
SUNY College at Oneonta	0	0	0	0	0	0	0	0
SUNY College at Oswego	0	0	0	0	0	0	0	0
SUNY College at Plattsburgh	0	0	0	0	0	0	0	0
SUNY College at Potsdam	0	0	0	0	0	0	0	0
SUNY College of Env Science and Forestry	103	0	2	1	0	0	73	27
SUNY College of Optometry	0	0	0	0	0	0	0	0
SUNY Health Science Center at Brooklyn	0	0	0	0	0	0	0	0
SUNY Inst of Technology at Utica-Rome	0	0	0	0	0	0	0	0
SUNY Upstate Medical University	0	0	0	0	0	0	0	0
Sarah Lawrence College	0	0	0	0	0	0	0	0
St. Bonaventure University	0	0	0	0	0	0	0	0
St. John's University	0	0	0	0	0	0	0	0
Syracuse University	754	0	10	3	7	2	177	555
Teachers College, Columbia University	0	0	0	0	0	0	0	0
Union College	28	0	0	1	0	0	24	3
University of Rochester	158	0	9	2	1	0	55	91
Vassar College	0	0	0	0	0	0	0	0
Wagner College	0	0	0	0	0	0	0	0
Yeshiva University	0	0	0	0	0	0	0	0
Pennsylvania	4,510	2	222	94	51	133	1,731	2,277
Bloomsburg University of Pennsylvania	0	0	0	0	0	0	0	0
Bryn Mawr College	0	0	0	0	0	0	0	0
Bucknell University	19	0	0	0	0	0	11	8
California University of Pennsylvania	0	0	0	0	0	0	0	0
Carnegie Mellon University	691	1	27	7	6	7	200	443
Clarion University of Pennsylvania	0	0	0	0	0	0	0	0
Drexel University	533	1	32	17	7	55	209	212
Duquesne University	0	0	0	0	0	0	0	0
East Stroudsburg Univ of Pennsylvania	0	0	0	0	0	0	0	0
Edinboro University of Pennsylvania	0	0	0	0	0	0	0	0
Gannon University	54	0	1	0	0	0	9	44
Indiana University of Pennsylvania	0	0	0	0	0	0	0	0
Kutztown University of Pennsylvania	0	0	0	0	0	0	0	0
Lehigh University	423	0	15	9	9	4	184	202
MCP Hahnemann University	0	0	0	0	0	0	0	0
Mansfield University of Pennsylvania	0	0	0	0	0	0	0	0
Marywood University	0	0	0	0	0	0	0	0
Medical College of Pennsylvania, The	0	0	0	0	0	0	0	0
Millersville University of Pennsylvania	0	0	0	0	0	0	0	0
Pennsylvania State University	1,412	0	67	29	12	18	536	750
Philadelphia Col of Osteopathic Med	0	0	0	0	0	0	0	0
Shippensburg University of Pennsylvania	0	0	0	0	0	0	0	0
Slippery Rock University of Pennsylvania	0	0	0	0	0	0	0	0
St Joseph's University	0	0	0	0	0	0	0	0
Swarthmore College	0	0	0	0	0	0	0	0
Temple University	74	0	6	0	0	4	21	43
Thomas Jefferson University	0	0	0	0	0	0	0	0
Univ of Pennsylvania	375	0	45	14	7	3	133	173
University of Pittsburgh	604	0	22	15	5	10	303	249

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 4 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Pennsylvania, continued:								
Univ of the Sciences in Philadelphia	0	0	0	0	0	0	0	0
University of Scranton	0	0	0	0	0	0	0	0
Villanova University	196	0	3	1	4	32	86	70
West Chester University of Pennsylvania	0	0	0	0	0	0	0	0
Widener University, All Campuses	120	0	4	2	1	0	35	78
Wilkes University	9	0	0	0	0	0	4	5
East North Central	20,050	29	1,340	388	308	624	7,165	10,196
Illinois	4,801	6	328	99	100	114	1,549	2,605
Bradley University	156	0	2	4	3	0	35	112
Chicago School of Prof Psych	0	0	0	0	0	0	0	0
Chicago State University	0	0	0	0	0	0	0	0
DePaul University	0	0	0	0	0	0	0	0
Eastern Illinois University	0	0	0	0	0	0	0	0
Finch U of Hlth Sci/The Chicago Med Sch	0	0	0	0	0	0	0	0
Governors State University	0	0	0	0	0	0	0	0
Illinois Institute of Technology	1,012	1	89	26	28	15	311	542
Illinois State University	0	0	0	0	0	0	0	0
Loyola University of Chicago	0	0	0	0	0	0	0	0
Midwestern University	0	0	0	0	0	0	0	0
North Central College	0	0	0	0	0	0	0	0
Northeastern Illinois University	0	0	0	0	0	0	0	0
Northern Illinois University	172	0	22	2	1	0	52	95
Northwestern University	576	1	45	11	11	12	233	263
Roosevelt University	22	0	3	0	0	1	12	6
Rush University	0	0	0	0	0	0	0	0
Southern Illinois Univ at Carbondale	278	0	8	14	1	32	73	150
Southern Illinois Univ at Edwardsville	209	0	4	3	4	0	57	141
University of Chicago	0	0	0	0	0	0	0	0
University of Illinois at Chicago	854	1	53	28	21	24	254	473
University of Illinois at Springfield	0	0	0	0	0	0	0	0
University of Illinois at Urbana-Champaign	1,522	3	102	11	31	30	522	823
Western Illinois University	0	0	0	0	0	0	0	0
Indiana	2,247	5	64	31	30	15	721	1,381
Ball State University	35	0	0	0	0	0	31	4
Butler University	0	0	0	0	0	0	0	0
Indiana State University	0	0	0	0	0	0	0	0
Indiana University	103	2	3	2	1	0	23	72
Indiana Wesleyan University	0	0	0	0	0	0	0	0
Purdue University	1,617	1	48	23	25	12	441	1,067
Rose-Hulman Institute of Technology	161	0	7	0	0	1	119	34
University of Evansville	0	0	0	0	0	0	0	0
University of Notre Dame	331	2	6	6	4	2	107	204
University of Saint Francis	0	0	0	0	0	0	0	0
Valparaiso University	0	0	0	0	0	0	0	0
Michigan	6,074	7	768	163	94	354	2,353	2,335
Andrews University	0	0	0	0	0	0	0	0
Central Michigan University	0	0	0	0	0	0	0	0
Eastern Michigan University	0	0	0	0	0	0	0	0
Ferris State University	0	0	0	0	0	0	0	0
Grand Valley State University	27	1	1	1	0	2	22	0
Michigan State University	494	0	29	20	24	5	124	292
Michigan Technological University	360	0	4	2	1	7	163	183
Northern Michigan University	0	0	0	0	0	0	0	0
Oakland University	643	2	65	17	5	36	354	164
University of Detroit Mercy	144	1	3	12	0	6	81	41
University of Michigan	2,473	3	302	70	55	125	1,216	702
Wayne State University	1,478	0	353	34	5	173	291	622
Western Michigan University	455	0	11	7	4	0	102	331

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 5 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Ohio	4,834	4	125	70	57	116	1,469	2,993
Air Force Institute of Technology	182	0	0	0	1	0	76	105
Antioch University	0	0	0	0	0	0	0	0
Bowling Green State University	0	0	0	0	0	0	0	0
Case Western Reserve University	457	0	37	6	5	60	121	228
Cleveland State University	240	0	30	10	3	5	68	124
John Carroll University	0	0	0	0	0	0	0	0
Kent State University	0	0	0	0	0	0	0	0
Medical College of Ohio	0	0	0	0	0	0	0	0
Miami University (OH)	43	0	5	1	0	0	37	0
Ohio State University	1,148	1	12	11	13	7	357	747
Ohio University	243	0	3	1	0	0	47	192
Union Institute, The	0	0	0	0	0	0	0	0
University of Akron	334	1	12	5	2	4	88	222
University of Cincinnati	933	0	9	7	6	5	190	716
University of Dayton	341	0	7	16	20	27	198	73
University of Toledo	467	2	4	2	2	4	106	347
Wright State University	405	0	6	10	5	4	151	229
Xavier University	0	0	0	0	0	0	0	0
Youngstown State University	41	0	0	1	0	0	30	10
Wisconsin	2,094	7	55	25	27	25	1,073	882
Marquette University	254	1	12	1	3	1	176	60
Medical College of Wisconsin	0	0	0	0	0	0	0	0
Milwaukee School of Engineering	306	0	4	6	0	0	290	6
University of Wisconsin-Eau Claire	0	0	0	0	0	0	0	0
University of Wisconsin-Green Bay	29	4	0	1	0	0	24	0
University of Wisconsin-La Crosse	0	0	0	0	0	0	0	0
University of Wisconsin-Madison	1,143	0	19	8	14	23	383	696
University of Wisconsin-Milwaukee	306	2	10	9	10	1	162	112
University of Wisconsin-Oshkosh	0	0	0	0	0	0	0	0
University of Wisconsin-Platteville	29	0	8	0	0	0	21	0
University of Wisconsin-River Falls	0	0	0	0	0	0	0	0
University of Wisconsin-Stevens Point	0	0	0	0	0	0	0	0
University of Wisconsin-Stout	27	0	2	0	0	0	17	8
University of Wisconsin-Whitewater	0	0	0	0	0	0	0	0
West North Central	6,316	14	387	75	74	69	2,323	3,374
Iowa	1,171	0	14	17	11	18	395	716
Des Moines Univ-Osteopathic Med Ctr	0	0	0	0	0	0	0	0
Drake University	0	0	0	0	0	0	0	0
Iowa State University	816	0	9	13	6	11	282	495
Loras College	0	0	0	0	0	0	0	0
Maharishi University of Management	0	0	0	0	0	0	0	0
Marycrest International Univ	0	0	0	0	0	0	0	0
University of Iowa	355	0	5	4	5	7	113	221
University of Northern Iowa	0	0	0	0	0	0	0	0
Kansas	1,499	3	77	11	17	15	521	855
Emporia State University	0	0	0	0	0	0	0	0
Fort Hays State University	0	0	0	0	0	0	0	0
Kansas State University	311	0	2	0	3	2	127	177
Pittsburg State University	0	0	0	0	0	0	0	0
University of Kansas	522	3	18	6	7	13	245	230
Washburn University of Topeka	0	0	0	0	0	0	0	0
Wichita State University	666	0	57	5	7	0	149	448

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 6 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Minnesota	1,310	2	169	12	11	2	540	574
Bemidji State University	0	0	0	0	0	0	0	0
Mayo Graduate School	18	0	1	0	2	0	6	9
Minnesota State University at Mankato	25	0	0	0	0	1	1	23
Minnesota State University Moorhead	0	0	0	0	0	0	0	0
St. Cloud State University	0	0	0	0	0	0	0	0
St. Mary's University of Minnesota	0	0	0	0	0	0	0	0
University of Minnesota	1,267	2	168	12	9	1	533	542
Walden University	0	0	0	0	0	0	0	0
Missouri	1,605	1	54	33	34	34	613	836
Central Missouri State University	24	0	0	0	0	2	14	8
Forest Institute of Professional Psych	0	0	0	0	0	0	0	0
Kirksville College of Osteopathic Med	0	0	0	0	0	0	0	0
Lincoln University	0	0	0	0	0	0	0	0
Northwest Missouri State University	0	0	0	0	0	0	0	0
Saint Louis University	17	0	0	0	1	0	4	12
Southeast Missouri State University	0	0	0	0	0	0	0	0
Southwest Missouri State University	8	0	4	2	0	0	2	0
Truman State University	0	0	0	0	0	0	0	0
University of Missouri-Columbia	368	0	9	7	13	3	84	252
University of Missouri-Kansas City	29	0	2	2	0	0	10	15
University of Missouri-Rolla	912	1	20	19	15	26	388	443
University of Missouri-St. Louis	0	0	0	0	0	0	0	0
Washington University	247	0	19	3	5	3	111	106
Nebraska	275	0	1	1	1	0	81	191
Creighton University	0	0	0	0	0	0	0	0
University of Nebraska at Kearney	0	0	0	0	0	0	0	0
University of Nebraska at Lincoln	275	0	1	1	1	0	81	191
University of Nebraska at Omaha	0	0	0	0	0	0	0	0
University of Nebraska Medical Center	0	0	0	0	0	0	0	0
North Dakota	159	3	66	0	0	0	62	28
North Dakota State University	115	2	59	0	0	0	34	20
University of North Dakota	44	1	7	0	0	0	28	8
South Dakota	297	5	6	1	0	0	111	174
South Dakota School of Mines and Tech	211	4	2	1	0	0	68	136
South Dakota State University	86	1	4	0	0	0	43	38
University of South Dakota	0	0	0	0	0	0	0	0
South Atlantic	20,215	37	1,174	1,166	720	368	7,923	8,827
Delaware	396	0	5	4	6	1	137	243
Delaware State University	0	0	0	0	0	0	0	0
University of Delaware	396	0	5	4	6	1	137	243
District of Columbia	1,548	6	101	144	57	72	747	421
American University	0	0	0	0	0	0	0	0
Catholic University of America	90	0	5	5	2	4	29	45
Gallaudet University	0	0	0	0	0	0	0	0
George Washington University	1,433	6	96	126	55	68	718	364
Georgetown University	0	0	0	0	0	0	0	0
Howard University	25	0	0	13	0	0	0	12
University of the District of Columbia	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 7 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non-Hispanic	Hispanic	Other or unknown	White non-Hispanic	
Florida	4,785	12	313	283	430	57	1,505	2,185
Barry University	0	0	0	0	0	0	0	0
Embry-Riddle Aeronautical University	30	0	1	0	0	1	6	22
Florida A&M University	77	0	1	54	7	3	12	0
Florida Atlantic University	199	0	14	7	14	0	55	109
Florida Institute of Technology	288	1	9	13	20	19	121	105
Florida International University	458	1	8	14	154	0	51	230
Florida State University	284	1	88	80	8	1	58	48
Jacksonville University	0	0	0	0	0	0	0	0
Nova Southeastern University	0	0	0	0	0	0	0	0
University of Central Florida	809	4	81	29	59	13	318	305
University of Florida	1,629	3	63	57	84	17	554	851
University of Miami	240	1	9	11	40	0	76	103
University of South Florida	771	1	39	18	44	3	254	412
University of West Florida	0	0	0	0	0	0	0	0
Georgia	3,528	8	171	185	87	118	1,438	1,521
Augusta State University	0	0	0	0	0	0	0	0
Clark Atlanta University	0	0	0	0	0	0	0	0
Emory University	0	0	0	0	0	0	0	0
Fort Valley State University	0	0	0	0	0	0	0	0
Georgia College and State University	0	0	0	0	0	0	0	0
Georgia Institute of Technology	3,344	8	161	185	83	15	1,371	1,521
Georgia Southern University	0	0	0	0	0	0	0	0
Georgia State University	0	0	0	0	0	0	0	0
Institute of Paper Science & Technology	68	0	10	0	2	0	56	0
Medical College of Georgia	0	0	0	0	0	0	0	0
Mercer University	93	0	0	0	0	93	0	0
Morehouse School of Medicine	0	0	0	0	0	0	0	0
State University of West Georgia	0	0	0	0	0	0	0	0
University of Georgia	23	0	0	0	2	10	11	0
Valdosta State University	0	0	0	0	0	0	0	0
Maryland	2,270	4	156	183	31	54	760	1,082
Coppin State College	0	0	0	0	0	0	0	0
Frostburg State University	0	0	0	0	0	0	0	0
Hood College	0	0	0	0	0	0	0	0
Johns Hopkins University	312	2	50	4	7	3	128	118
Loyola College	129	0	9	12	0	8	98	2
Morgan State University	133	0	2	78	1	0	26	26
Towson University	0	0	0	0	0	0	0	0
Uniformed Serv Univ of the Hlth Sciences	0	0	0	0	0	0	0	0
University of Baltimore	0	0	0	0	0	0	0	0
University of Maryland at College Park	1,551	1	85	78	21	43	471	852
University of Maryland, Baltimore	0	0	0	0	0	0	0	0
University of Maryland, Baltimore County	145	1	10	11	2	0	37	84
University of Maryland, Eastern Shore	0	0	0	0	0	0	0	0
Washington College	0	0	0	0	0	0	0	0
North Carolina	2,474	4	132	200	26	0	950	1,162
Appalachian State University	0	0	0	0	0	0	0	0
Duke University	273	0	14	4	2	0	109	144
East Carolina University	0	0	0	0	0	0	0	0
North Carolina A&T State University	226	0	14	116	1	0	32	63
North Carolina Central University	0	0	0	0	0	0	0	0
North Carolina State University	1,617	4	87	56	21	0	635	814
Univ of North Carolina at Chapel Hill	71	0	6	6	0	0	33	26
Univ of North Carolina at Charlotte	281	0	11	17	2	0	140	111
Univ of North Carolina at Greensboro	0	0	0	0	0	0	0	0
Univ of North Carolina at Wilmington	0	0	0	0	0	0	0	0
Wake Forest University	6	0	0	1	0	0	1	4
Western Carolina University	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 8 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
South Carolina	1,074	0	20	22	12	13	381	626
Clemson University	601	0	4	10	4	9	227	347
College of Charleston	0	0	0	0	0	0	0	0
Furman University	0	0	0	0	0	0	0	0
Medical University of South Carolina	0	0	0	0	0	0	0	0
University of South Carolina	473	0	16	12	8	4	154	279
Wintrop University	0	0	0	0	0	0	0	0
Virginia	3,565	2	268	142	70	45	1,780	1,258
College of William and Mary	42	0	3	2	1	0	22	14
Eastern Virginia Medical School	0	0	0	0	0	0	0	0
George Mason University	589	0	88	47	21	0	319	114
Hampton University	0	0	0	0	0	0	0	0
Hollins University	0	0	0	0	0	0	0	0
Institute of Textile Technology	17	0	0	2	1	0	14	0
James Madison University	0	0	0	0	0	0	0	0
Marymount University	0	0	0	0	0	0	0	0
Old Dominion University	526	0	26	34	8	7	222	229
Radford University	0	0	0	0	0	0	0	0
University of Richmond	0	0	0	0	0	0	0	0
University of Virginia	586	1	29	7	4	23	319	203
Virginia Commonwealth University	62	0	26	2	2	3	29	0
Virginia Polytechnic Inst and State Univ	1,743	1	96	48	33	12	855	698
Virginia State University	0	0	0	0	0	0	0	0
West Virginia	575	1	8	3	1	8	225	329
Marshall University	38	1	0	0	0	8	29	0
University of Charleston	0	0	0	0	0	0	0	0
West Virginia Graduate College	0	0	0	0	0	0	0	0
West Virginia University	516	0	8	3	1	0	195	309
West Virginia University Institute of Tech	21	0	0	0	0	0	1	20
East South Central	4,958	5	254	188	74	39	2,009	2,389
Alabama	1,757	2	153	96	29	23	714	740
Alabama A&M University	0	0	0	0	0	0	0	0
Alabama State University	0	0	0	0	0	0	0	0
Auburn University	477	1	3	17	3	4	217	232
Jacksonville State University	0	0	0	0	0	0	0	0
Troy State University Montgomery	0	0	0	0	0	0	0	0
Tuskegee University	61	0	0	21	0	0	0	40
University of Alabama, The	310	0	59	11	20	2	100	118
University of Alabama at Birmingham, The	337	0	71	24	2	16	109	115
University of Alabama in Huntsville, The	436	1	18	21	4	1	276	115
University of Montevallo	0	0	0	0	0	0	0	0
University of South Alabama	136	0	2	2	0	0	12	120
Kentucky	938	2	30	19	10	8	441	428
Eastern Kentucky University	0	0	0	0	0	0	0	0
Morehead State University	0	0	0	0	0	0	0	0
Murray State University	0	0	0	0	0	0	0	0
Spalding University	0	0	0	0	0	0	0	0
University of Kentucky	386	0	4	3	1	8	140	230
University of Louisville	552	2	26	16	9	0	301	198
Western Kentucky University	0	0	0	0	0	0	0	0
Mississippi	486	0	6	19	14	5	134	308
Jackson State University	0	0	0	0	0	0	0	0
Mississippi State University	400	0	5	17	14	0	123	241
Mississippi University for Women	0	0	0	0	0	0	0	0
University of Mississippi	86	0	1	2	0	5	11	67

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 9 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Mississippi, continued:								
University of Southern Mississippi	0	0	0	0	0	0	0	0
Tennessee	1,777	1	65	54	21	3	720	913
Austin Peay State University	0	0	0	0	0	0	0	0
East Tennessee State University	0	0	0	0	0	0	0	0
Fisk University	0	0	0	0	0	0	0	0
Meharry Medical College	0	0	0	0	0	0	0	0
Middle Tennessee State University	0	0	0	0	0	0	0	0
Tennessee State University	58	0	5	10	1	0	9	33
Tennessee Technological University	174	0	0	4	0	0	49	121
University of Memphis, The	514	0	19	2	1	0	149	343
University of Tennessee at Chattanooga	55	0	2	5	0	0	33	15
University of Tennessee at Knoxville	588	1	6	12	6	1	333	229
University of Tennessee Health Sci Ctr	30	0	0	1	0	0	12	17
Vanderbilt University	358	0	33	20	13	2	135	155
West South Central	11,087	45	773	263	459	211	3,159	6,177
Arkansas	627	4	34	28	6	113	218	224
Arkansas State University	0	0	0	0	0	0	0	0
University of Arkansas at Little Rock	0	0	0	0	0	0	0	0
University of Arkansas Main	627	4	34	28	6	113	218	224
University of Arkansas, Med Sci Campus	0	0	0	0	0	0	0	0
University of Central Arkansas	0	0	0	0	0	0	0	0
Louisiana	1,188	4	15	28	18	10	345	768
Grambling State University	0	0	0	0	0	0	0	0
Louisiana State University	657	4	9	14	11	10	175	434
Louisiana Tech University	192	0	0	1	1	0	27	163
Loyola University New Orleans	0	0	0	0	0	0	0	0
McNeese State University	27	0	0	0	1	0	8	18
Nicholls State University	0	0	0	0	0	0	0	0
Northwestern State University	0	0	0	0	0	0	0	0
Southeastern Louisiana University	0	0	0	0	0	0	0	0
Southern University A & M, All Campuses	0	0	0	0	0	0	0	0
Tulane University	166	0	3	9	5	0	96	53
Univ of Louisiana at Lafayette	146	0	3	4	0	0	39	100
Univ of Louisiana at Monroe, The	0	0	0	0	0	0	0	0
Xavier University of Louisiana	0	0	0	0	0	0	0	0
Oklahoma	1,307	25	23	16	14	3	346	880
Cameron University	0	0	0	0	0	0	0	0
East Central University	0	0	0	0	0	0	0	0
Northeastern State University	44	5	0	2	0	1	36	0
Oklahoma State University	588	13	8	7	5	0	142	413
Southwestern Oklahoma State University	0	0	0	0	0	0	0	0
University of Oklahoma	515	7	12	7	8	0	152	329
University of Tulsa	160	0	3	0	1	2	16	138
Texas	7,965	12	701	191	421	85	2,250	4,305
Abilene Christian University	0	0	0	0	0	0	0	0
Angelo State University	0	0	0	0	0	0	0	0
Baylor College of Dentistry	0	0	0	0	0	0	0	0
Baylor College of Medicine	0	0	0	0	0	0	0	0
Baylor University	0	0	0	0	0	0	0	0
Lamar University	185	0	51	2	1	0	17	114
Midwestern State University	0	0	0	0	0	0	0	0
Prairie View A&M University	25	0	6	10	0	0	1	8
Rice University	280	2	22	4	4	0	92	156
Sam Houston State University	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 10 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Texas, continued:								
Southern Methodist University	718	2	107	50	46	0	343	170
Southwest Texas State University	0	0	0	0	0	0	0	0
St. Mary's University	58	0	3	1	16	0	28	10
Stephen F. Austin State University	0	0	0	0	0	0	0	0
Sul Ross State University	0	0	0	0	0	0	0	0
Tarleton State University	0	0	0	0	0	0	0	0
Tarleton University System Center	0	0	0	0	0	0	0	0
Texas A&M Univ	1,878	0	111	22	96	48	508	1,093
Texas A&M Univ-Commerce	0	0	0	0	0	0	0	0
Texas A&M Univ-Corpus Christi	0	0	0	0	0	0	0	0
Texas A&M Univ-Kingsville	205	0	3	1	18	0	12	171
Texas A&M Univ-Sys Health Science Cent	0	0	0	0	0	0	0	0
Texas Christian University	0	0	0	0	0	0	0	0
Texas Southern University	0	0	0	0	0	0	0	0
Texas Tech University	478	2	5	4	31	4	202	230
Texas Woman's University	0	0	0	0	0	0	0	0
Trinity University	0	0	0	0	0	0	0	0
Univ of Houston	701	1	208	42	35	24	186	205
Univ of Houston, Clear Lake	95	0	17	6	10	0	38	24
Univ of Houston, Victoria	0	0	0	0	0	0	0	0
Univ of North Texas	24	0	0	2	0	2	8	12
Univ of North Texas Hlth Sci Ctr at Ft W	0	0	0	0	0	0	0	0
Univ of Texas at Arlington	948	2	56	11	14	0	153	712
Univ of Texas at Austin	1,716	3	45	22	41	0	520	1,085
Univ of Texas at Dallas	321	0	38	6	8	0	57	212
Univ of Texas at El Paso	131	0	5	4	46	0	26	50
Univ of Texas at San Antonio	123	0	6	2	21	0	45	49
Univ of Texas at Tyler	4	0	1	0	0	0	2	1
Univ of Texas Houston Hlth Sci Ctr	0	0	0	0	0	0	0	0
Univ of Texas M.D. Anderson Cancer Ctr	0	0	0	0	0	0	0	0
Univ of Texas Med Branch at Galveston	0	0	0	0	0	0	0	0
Univ of Texas of the Permian Basin	0	0	0	0	0	0	0	0
Univ of Texas-Pan American	50	0	15	2	33	0	0	0
Univ of Texas San Antonio Hlth Sci Ctr	0	0	0	0	0	0	0	0
Univ of Texas SW Medical Ctr at Dallas	14	0	2	0	0	7	5	0
University of the Incarnate Word	0	0	0	0	0	0	0	0
Wayland Baptist University	0	0	0	0	0	0	0	0
West Texas A&M University	11	0	0	0	1	0	7	3
Mountain	8,194	33	504	89	352	442	3,529	3,245
Arizona	2,153	5	75	18	77	53	618	1,307
Arizona State University	1,497	3	44	13	45	47	401	944
Northern Arizona University	16	0	1	0	2	0	13	0
University of Arizona	640	2	30	5	30	6	204	363
Colorado	2,761	10	176	37	123	267	1,399	749
Colorado School of Mines	278	3	9	1	6	3	151	105
Colorado State University	423	0	13	2	8	30	199	171
National Technological University	557	0	77	13	61	45	339	22
University of Colorado	1,442	6	77	21	45	187	693	413
University of Denver	22	0	0	0	0	0	8	14
University of Northern Colorado	0	0	0	0	0	0	0	0
University of Southern Colorado	39	1	0	0	3	2	9	24
Idaho	439	4	16	6	13	4	293	103
Boise State University	45	0	3	0	2	4	33	3
Idaho State University	52	0	5	1	2	0	28	16
University of Idaho	342	4	8	5	9	0	232	84

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 11 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Montana	166	0	1	0	0	0	123	42
Montana State University-Bozeman	123	0	1	0	0	0	90	32
Montana Tech of the Univ of Montana	43	0	0	0	0	0	33	10
University of Montana, The	0	0	0	0	0	0	0	0
Nevada	373	0	22	4	10	16	148	173
University of Nevada Las Vegas	174	0	15	4	5	7	87	56
University of Nevada, Reno	199	0	7	0	5	9	61	117
New Mexico	879	12	24	8	106	95	259	375
Eastern New Mexico University	0	0	0	0	0	0	0	0
New Mexico Highlands University	0	0	0	0	0	0	0	0
New Mexico Institute of Mining and Tech	107	0	0	0	7	0	45	55
New Mexico State University	319	4	9	3	48	85	34	136
University of New Mexico	453	8	15	5	51	10	180	184
Utah	1,315	2	187	16	22	7	628	453
Brigham Young University	275	1	15	0	5	7	219	28
University of Utah	679	0	101	15	14	0	255	294
Utah State University	361	1	71	1	3	0	154	131
Wyoming	108	0	3	0	1	0	61	43
University of Wyoming	108	0	3	0	1	0	61	43
Pacific	16,032	39	2,728	227	504	1,022	4,495	7,017
Alaska	106	0	5	4	4	1	61	31
University of Alaska Anchorage	50	0	5	4	3	1	37	0
University of Alaska Fairbanks	56	0	0	0	1	0	24	31
University of Alaska Southeast	0	0	0	0	0	0	0	0
California	13,455	25	2,523	206	460	799	3,533	5,909
Alliant University	0	0	0	0	0	0	0	0
Azusa Pacific University	0	0	0	0	0	0	0	0
Biola University	0	0	0	0	0	0	0	0
Calif Institute of Integral Studies	0	0	0	0	0	0	0	0
Calif Inst of Technology	436	8	23	6	13	0	147	239
Calif Poly State Univ, San Luis Obispo	125	0	0	0	0	0	59	66
Calif Sch of Prof Psych-Alameda	0	0	0	0	0	0	0	0
Calif Sch of Prof Psych-Fresno	0	0	0	0	0	0	0	0
Calif Sch of Prof Psych-Los Angeles	0	0	0	0	0	0	0	0
Calif Sch of Prof Psych-San Diego	0	0	0	0	0	0	0	0
Calif State Poly Univ, Pomona	200	0	65	2	17	33	43	40
Calif State Univ, Bakersfield	0	0	0	0	0	0	0	0
Calif State Univ, Chico	5	0	1	0	0	0	0	4
Calif State Univ, Dominguez Hills	18	0	5	3	3	2	5	0
Calif State Univ, Fresno	60	0	9	1	7	12	20	11
Calif State Univ, Fullerton	131	0	47	4	9	13	19	39
Calif State Univ, Hayward	0	0	0	0	0	0	0	0
Calif State Univ, Long Beach	257	2	67	6	34	15	59	74
Calif State Univ, Los Angeles	162	0	48	4	31	10	13	56
Calif State Univ, Northridge	238	1	54	1	21	35	77	49
Calif State Univ, Sacramento	222	0	22	3	6	20	53	118
Calif State Univ, San Bernardino	0	0	0	0	0	0	0	0
Calif State Univ, Stanislaus	0	0	0	0	0	0	0	0
Chapman University	0	0	0	0	0	0	0	0
Charles R. Drew Univ of Medicine & Sci	0	0	0	0	0	0	0	0
Claremont Graduate University	0	0	0	0	0	0	0	0
Dominican University of California	0	0	0	0	0	0	0	0
Fielding Institute, The	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 12 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
California, continued:								
Fuller Theological Seminary	0	0	0	0	0	0	0	0
Golden Gate University	0	0	0	0	0	0	0	0
Harvey Mudd College	1	1	0	0	0	0	0	0
Humboldt State University	40	0	0	0	3	9	26	2
John F Kennedy University	0	0	0	0	0	0	0	0
Loma Linda University	0	0	0	0	0	0	0	0
Loyola Marymount University	58	0	13	2	8	9	18	8
National University	148	0	39	14	5	9	49	32
Naval Postgraduate School	334	0	1	2	1	2	148	180
Occidental College	0	0	0	0	0	0	0	0
Pacific Graduate School of Psychology	0	0	0	0	0	0	0	0
Pacific States University	0	0	0	0	0	0	0	0
Pepperdine University	0	0	0	0	0	0	0	0
RAND Graduate School of Policy Studies	0	0	0	0	0	0	0	0
San Diego State University	223	0	40	7	21	17	113	25
San Francisco State University	39	0	5	1	0	1	10	22
San Jose State University	1,036	2	703	16	27	65	126	97
Santa Clara University	327	0	117	5	14	17	80	94
Sonoma State University	0	0	0	0	0	0	0	0
Stanford University	2,668	4	346	67	71	112	747	1,321
University of Calif, Berkeley	1,537	3	196	20	62	77	525	654
University of Calif, Davis	645	1	89	9	16	48	269	213
University of Calif, Irvine	404	0	83	2	13	81	64	161
University of Calif, Los Angeles	893	0	196	7	22	58	162	448
University of Calif, Riverside	92	0	3	0	1	3	9	76
University of Calif, San Diego	629	3	111	3	17	82	228	185
University of Calif, San Francisco	43	0	14	2	2	3	22	0
University of Calif, Santa Barbara	474	0	26	1	7	30	176	234
University of Calif, Santa Cruz	101	0	2	1	0	7	11	80
University of La Verne	0	0	0	0	0	0	0	0
University of the Pacific	0	0	0	0	0	0	0	0
University of Redlands	0	0	0	0	0	0	0	0
University of San Diego	0	0	0	0	0	0	0	0
University of San Francisco	0	0	0	0	0	0	0	0
University of Southern California	1,909	0	198	17	29	29	255	1,381
West Coast University	0	0	0	0	0	0	0	0
Wright Institute	0	0	0	0	0	0	0	0
Hawaii	160	1	50	0	1	12	17	79
University of Hawaii at Manoa	160	1	50	0	1	12	17	79
Oregon	932	2	37	3	12	122	274	482
Oregon Grad Inst School of Science & Eng	150	0	1	0	0	91	8	50
Oregon Health & Science University	0	0	0	0	0	0	0	0
Oregon State University	447	1	18	1	4	14	139	270
Pacific University	0	0	0	0	0	0	0	0
Portland State University	332	1	18	2	8	17	125	161
Southern Oregon University	0	0	0	0	0	0	0	0
University of Oregon	0	0	0	0	0	0	0	0
University of Portland	3	0	0	0	0	0	2	1
Washington	1,379	11	113	14	27	88	610	516
Central Washington University	30	1	3	3	1	4	17	1
Eastern Washington University	0	0	0	0	0	0	0	0
Gonzaga University	0	0	0	0	0	0	0	0
Pacific Lutheran University	0	0	0	0	0	0	0	0
Saint Martin's College	39	0	3	1	0	0	19	16
Seattle University	50	1	7	0	1	8	15	18
University of Washington	981	7	72	9	20	61	442	370
Walla Walla College	0	0	0	0	0	0	0	0
Washington State University	279	2	28	1	5	15	117	111
Western Washington University	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 31. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by race/ethnicity background of U.S. citizens and permanent residents: 2001

Page 13 of 13

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Washington, continued:								
Whitworth College	0	0	0	0	0	0	0	0
Outlying Areas	303	0	0	0	303	0	0	0
Guam	0	0	0	0	0	0	0	0
University of Guam	0	0	0	0	0	0	0	0
Puerto Rico	303	0	0	0	303	0	0	0
Carlos Albizu University	0	0	0	0	0	0	0	0
Ponce School of Medicine	0	0	0	0	0	0	0	0
Pontifical Cath Univ of Puerto Rico, The	0	0	0	0	0	0	0	0
Univ of Puerto Rico Mayaguez Campus	303	0	0	0	303	0	0	0
Univ of Puerto Rico Med Sci Campus	0	0	0	0	0	0	0	0
Univ of Puerto Rico Rio Piedras Campus	0	0	0	0	0	0	0	0

NOTE: Includes medical schools.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 32. Graduate students in science, engineering, and health fields in doctorate-granting institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	440,168	434,377	429,890	424,608	423,928	430,798	434,274	452,411
Total, science and engineering fields	379,562	370,989	365,551	359,380	357,792	362,763	367,590	384,072
Sciences, total	274,519	271,486	269,452	264,854	263,871	267,430	268,626	280,608
Physical sciences, total	32,696	31,701	30,772	29,629	29,195	29,451	29,336	29,977
Astronomy	973	912	874	778	820	832	888	916
Chemistry	18,729	18,477	18,283	17,744	17,459	17,586	17,415	17,608
Physics	12,711	12,046	11,382	10,901	10,607	10,643	10,640	11,064
Physical sciences, n.e.c.	283	266	233	206	309	390	393	389
Earth, atmos., & ocean sci., total	14,268	14,073	13,717	13,024	12,890	12,790	12,707	12,624
Atmospheric sciences	1,090	1,062	1,079	1,081	954	906	956	918
Geosciences	7,283	7,137	6,892	6,567	6,319	6,265	6,245	6,175
Oceanography	2,678	2,549	2,462	2,313	2,395	2,458	2,486	2,405
Earth, atmos., & ocean sci., n.e.c.	3,217	3,325	3,284	3,063	3,222	3,161	3,020	3,126
Mathematical sciences, total	17,311	16,309	15,883	14,788	14,482	14,188	13,823	15,085
Mathematics & applied mathematics	14,273	13,272	12,876	12,146	11,881	11,503	11,044	12,100
Statistics	3,038	3,037	3,007	2,642	2,601	2,685	2,779	2,985
Computer sciences	28,749	28,133	29,050	30,130	31,721	35,076	39,632	43,860
Agricultural sciences	11,427	11,548	11,146	11,037	10,943	11,116	10,897	10,985
Biological sciences, total	53,463	53,758	53,457	52,739	52,793	52,856	52,515	54,099
Anatomy	1,018	982	1,019	1,003	922	886	924	867
Biochemistry	5,548	5,503	5,212	5,049	5,095	5,060	4,922	4,855
Biology	11,054	10,861	11,213	11,497	11,255	11,000	10,630	10,791
Biometry/epidemiology	2,710	2,812	3,001	2,900	3,511	3,529	3,471	3,629
Biophysics	794	845	833	748	737	710	745	893
Botany	2,741	2,605	2,501	2,396	2,319	2,252	2,166	2,174
Cell biology	3,814	3,978	3,996	3,937	4,029	4,281	4,449	4,557
Ecology	1,420	1,508	1,497	1,493	1,520	1,559	1,591	1,706
Entomology/parasitology	1,263	1,241	1,234	1,161	1,168	1,145	1,104	1,170
Genetics	1,649	1,651	1,679	1,713	1,660	1,714	1,648	1,768
Microbio., immunology, & virology	5,067	4,999	4,886	4,780	4,751	4,795	4,800	4,785
Nutrition	4,152	4,350	4,345	4,224	4,081	4,052	4,106	4,086
Pathology	1,603	1,575	1,583	1,621	1,514	1,509	1,460	1,575
Pharmacology	2,839	2,710	2,663	2,597	2,711	2,729	2,927	3,022
Physiology	2,378	2,540	2,377	2,298	2,151	2,064	1,985	1,944
Zoology	2,021	2,001	1,848	1,662	1,616	1,554	1,479	1,446
Biosciences, n.e.c.	3,392	3,597	3,570	3,660	3,753	4,017	4,108	4,831
Psychology, total	39,484	38,862	38,498	39,158	39,367	38,988	37,844	39,331
Psychology, general	12,565	11,928	11,096	11,690	11,719	11,161	11,081	11,628
Clinical psychology	10,774	10,842	11,116	11,509	11,390	11,427	11,047	11,344
Psychology, n.e.c.	16,145	16,092	16,286	15,959	16,258	16,400	15,716	16,359
Social sciences, total	77,121	77,102	76,929	74,349	72,480	72,965	71,872	74,647
Agricultural economics	2,222	2,292	2,085	2,015	1,992	2,011	2,076	2,153
Anthropology (cultural & social)	7,440	7,439	7,512	7,260	7,239	7,255	7,273	7,183
Economics (except agricultural)	12,152	11,885	11,369	10,507	10,109	9,993	10,208	10,806
Geography	3,777	3,742	3,788	3,759	3,767	3,712	3,580	3,923
History and philosophy of science	387	401	409	443	449	503	472	496
Linguistics	2,937	2,857	2,848	2,793	2,662	2,570	2,456	2,505
Political science	28,424	28,117	27,445	26,004	25,163	25,550	25,490	26,529
Sociology	8,263	8,300	8,199	8,174	7,799	7,788	7,666	7,748
Sociology/anthropology	856	823	830	855	835	719	728	788
Social sciences, n.e.c.	10,663	11,246	12,444	12,539	12,465	12,864	11,923	12,516
Engineering, total	105,043	99,503	96,099	94,526	93,921	95,333	98,964	103,464
Aerospace engineering	3,653	3,287	3,140	3,029	3,096	3,290	3,337	3,430
Agricultural engineering	1,061	1,037	1,012	941	925	934	899	907
Biomedical engineering	2,674	2,662	2,685	2,785	2,850	3,069	3,188	3,528
Chemical engineering	7,500	7,311	7,267	7,166	7,007	6,794	7,030	6,823
Civil engineering	18,344	17,744	17,193	16,064	15,548	15,348	15,807	15,838
Electrical engineering	30,068	27,825	26,994	27,970	28,736	28,983	30,906	33,285
Engineering science	2,069	1,945	1,741	1,636	1,685	1,604	1,601	1,759
Industrial/manufacturing eng.	12,862	12,257	11,569	10,888	10,288	10,945	11,485	12,094
Mechanical engineering	16,794	15,556	14,688	14,266	13,967	14,106	14,797	15,132
Metallurgical/materials eng.	5,071	4,821	4,643	4,572	4,576	4,383	4,298	4,642
Mining engineering	399	362	351	333	290	320	276	229
Nuclear engineering	1,246	1,154	980	868	821	830	792	801
Petroleum engineering	605	568	545	557	567	630	621	676
Engineering, n.e.c.	2,697	2,974	3,291	3,451	3,565	4,097	3,927	4,320

See explanatory information, if any, and SOURCE at end of table.

**Table 32. Graduate students in science, engineering, and health fields in doctorate-granting institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	60,606	63,388	64,339	65,228	66,136	68,035	66,684	68,339
Medical fields, total	13,989	14,545	14,482	14,449	15,716	16,450	15,706	16,694
Anesthesiology	427	444	566	531	553	522	529	624
Cardiology	14	19	18	33	36	63	53	50
Oncology/cancer research	208	189	185	198	209	250	237	261
Endocrinology	63	53	46	43	58	67	57	53
Gastroenterology	0	0	0	3	6	7	14	7
Hematology	2	1	3	3	1	5	6	6
Neurology	1,472	1,571	1,653	1,717	1,825	1,907	1,982	2,136
Obstetrics and gynecology	4	6	4	18	13	16	16	28
Ophthalmology	26	26	31	30	31	49	58	46
Otorhinolaryngology	2	0	0	2	0	3	9	4
Pediatrics	261	238	275	342	328	316	403	380
Preventive medicine/community health	9,963	10,467	10,162	9,978	11,164	11,683	10,641	10,913
Psychiatry	144	158	131	135	86	87	136	169
Pulmonary disease	0	0	0	0	0	6	7	8
Radiology	320	268	227	221	191	187	166	198
Surgery	119	174	167	171	122	122	147	130
Clinical medicine, n.e.c.	964	931	1,014	1,024	1,093	1,160	1,245	1,681
Other health fields, total	46,617	48,843	49,857	50,779	50,420	51,585	50,978	51,645
Dental sciences	1,298	1,338	1,388	1,491	1,518	1,467	1,430	1,494
Nursing	22,378	23,192	21,953	21,699	20,297	20,469	19,177	19,385
Pharmaceutical sciences	2,876	2,786	2,818	2,694	2,782	3,296	3,482	3,757
Speech pathology/audiology	8,169	8,415	8,925	9,343	9,397	9,551	9,810	9,791
Veterinary sciences	905	961	983	1,209	1,270	1,292	1,367	1,454
Health related, n.e.c.	10,991	12,151	13,790	14,343	15,156	15,510	15,712	15,764

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 33. Graduate students in science, engineering, and health fields in public doctorate-granting institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	306,918	302,411	298,928	294,931	293,079	298,232	303,742	317,292
Total, science and engineering fields	262,562	256,777	251,999	247,576	245,894	249,369	254,975	267,531
Sciences, total	187,276	185,258	183,125	179,912	178,690	180,987	182,232	191,238
Physical sciences, total	23,614	23,063	22,300	21,482	21,352	21,446	21,505	22,031
Astronomy	591	556	525	471	509	511	542	538
Chemistry	13,549	13,489	13,301	12,985	12,882	12,889	12,878	13,072
Physics	9,208	8,771	8,247	7,825	7,665	7,664	7,701	8,045
Physical sciences, n.e.c.	266	247	227	201	296	382	384	376
Earth, atmos., & ocean sci., total	11,551	11,646	11,431	10,911	10,789	10,692	10,644	10,489
Atmospheric sciences	1,071	1,037	1,059	1,057	933	889	931	891
Geosciences	5,869	5,808	5,632	5,372	5,133	5,106	5,107	5,021
Oceanography	2,119	2,109	2,048	1,922	2,012	2,051	2,083	2,042
Earth, atmos., & ocean sci., n.e.c.	2,492	2,692	2,560	2,711	2,646	2,523	2,523	2,535
Mathematical sciences, total	13,095	12,228	11,918	11,060	10,745	10,554	10,516	11,732
Mathematics & applied mathematics	10,581	9,736	9,452	8,926	8,695	8,388	8,352	9,380
Statistics	2,514	2,492	2,466	2,134	2,050	2,166	2,164	2,352
Computer sciences	17,090	17,043	17,307	18,393	19,332	21,663	24,262	26,717
Agricultural sciences	10,989	11,139	10,742	10,662	10,560	10,732	10,433	10,503
Biological sciences, total	38,687	38,414	38,117	37,392	37,557	37,533	37,228	38,276
Anatomy	797	770	784	770	691	673	696	660
Biochemistry	3,871	3,854	3,692	3,580	3,597	3,561	3,496	3,474
Biology	7,681	7,356	7,684	7,840	7,704	7,617	7,448	7,614
Biometry/epidemiology	1,732	1,724	1,777	1,734	2,165	2,216	2,198	2,332
Biophysics	415	472	459	419	417	416	443	549
Botany	2,621	2,466	2,364	2,253	2,183	2,112	2,075	2,088
Cell biology	2,278	2,381	2,414	2,380	2,535	2,670	2,831	2,935
Ecology	1,314	1,406	1,399	1,403	1,431	1,439	1,465	1,543
Entomology/parasitology	1,193	1,179	1,171	1,101	1,109	1,087	1,055	1,119
Genetics	1,083	1,077	1,119	1,144	1,075	1,099	1,045	1,113
Microbio., immunology, & virology	3,564	3,502	3,395	3,313	3,256	3,215	3,201	3,191
Nutrition	3,408	3,535	3,518	3,399	3,370	3,384	3,212	3,171
Pathology	1,046	1,023	1,026	1,010	1,008	982	944	979
Pharmacology	1,979	1,872	1,797	1,750	1,810	1,820	2,022	2,009
Physiology	1,521	1,548	1,439	1,373	1,341	1,305	1,167	1,111
Zoology	1,951	1,914	1,780	1,598	1,558	1,496	1,442	1,391
Biosciences, n.e.c.	2,233	2,335	2,299	2,325	2,307	2,441	2,488	2,997
Psychology, total	19,897	19,867	19,178	19,902	19,643	18,977	18,590	19,593
Psychology, general	8,262	7,753	7,259	7,824	7,707	7,138	6,912	7,423
Clinical psychology	2,985	3,095	3,019	3,126	2,955	2,940	2,978	2,993
Psychology, n.e.c.	8,650	9,019	8,900	8,952	8,981	8,899	8,700	9,177
Social sciences, total	52,353	51,858	52,132	50,110	48,712	49,390	49,054	51,897
Agricultural economics	2,107	2,159	1,999	1,945	1,925	1,946	2,016	2,091
Anthropology (cultural & social)	5,421	5,348	5,417	5,194	5,176	5,262	5,289	5,239
Economics (except agricultural)	7,953	7,675	7,347	6,743	6,386	6,441	6,527	6,947
Geography	3,443	3,448	3,470	3,466	3,459	3,387	3,259	3,621
History and philosophy of science	198	212	211	222	222	296	272	298
Linguistics	2,077	2,046	1,973	1,953	1,876	1,834	1,761	1,805
Political science	16,963	16,607	16,154	15,145	14,482	15,025	14,966	16,203
Sociology	6,078	6,095	6,086	6,053	5,866	5,712	5,641	5,797
Sociology/anthropology	673	635	649	690	678	605	602	620
Social sciences, n.e.c.	7,440	7,633	8,826	8,699	8,642	8,882	8,721	9,276
Engineering, total	75,286	71,519	68,874	67,664	67,204	68,382	72,743	76,293
Aerospace engineering	2,872	2,549	2,399	2,310	2,295	2,308	2,350	2,424
Agricultural engineering	1,006	981	959	893	880	888	845	839
Biomedical engineering	1,601	1,620	1,671	1,824	1,842	1,991	2,046	2,196
Chemical engineering	5,521	5,362	5,278	5,142	5,049	4,825	5,089	4,883
Civil engineering	13,683	13,368	13,035	12,332	11,886	12,005	12,511	12,674
Electrical engineering	20,424	19,132	18,121	18,840	19,007	19,830	21,999	23,763
Engineering science	1,359	1,287	1,246	1,117	1,063	1,102	986	1,085
Industrial/manufacturing eng.	9,096	8,474	7,985	7,437	7,384	7,665	8,351	8,784
Mechanical engineering	12,476	11,667	11,129	10,713	10,797	10,830	11,553	11,790
Metallurgical/materials eng.	3,596	3,395	3,266	3,215	3,173	3,053	3,110	3,416
Mining engineering	325	289	258	233	197	214	264	224
Nuclear engineering	1,062	975	826	751	715	716	672	691
Petroleum engineering	477	438	432	442	459	531	525	558
Engineering, n.e.c.	1,788	1,982	2,269	2,415	2,457	2,424	2,442	2,966

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate students in science, engineering, and health fields in public doctorate-granting institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	44,356	45,634	46,929	47,355	47,185	48,863	48,767	49,761
Medical fields, total	8,834	9,197	9,211	9,155	9,666	10,148	10,015	10,498
Anesthesiology	214	205	295	285	325	303	362	379
Cardiology	0	0	0	10	10	34	26	25
Oncology/cancer research	125	125	117	123	139	145	141	146
Endocrinology	63	53	46	43	58	67	57	53
Gastroenterology	0	0	0	3	6	7	14	7
Hematology	2	1	3	3	1	5	6	6
Neurology	704	723	742	819	889	999	1,073	1,173
Obstetrics and gynecology	2	1	0	5	8	13	8	20
Ophthalmology	26	24	31	30	31	49	58	46
Otorhinolaryngology	2	0	0	2	0	3	6	4
Pediatrics	186	170	217	241	226	243	257	287
Preventive medicine/community health	6,455	6,844	6,718	6,531	7,003	7,241	6,831	6,977
Psychiatry	97	114	102	101	64	58	73	129
Pulmonary disease	0	0	0	0	0	1	1	1
Radiology	252	195	159	163	148	135	124	153
Surgery	115	168	161	168	118	118	139	122
Clinical medicine, n.e.c.	591	574	620	628	640	727	839	970
Other health fields, total	35,522	36,437	37,718	38,200	37,519	38,715	38,752	39,263
Dental sciences	1,006	1,000	1,080	1,170	1,204	1,199	1,213	1,239
Nursing	17,869	18,349	17,582	17,451	16,354	16,425	15,599	15,755
Pharmaceutical sciences	2,330	2,255	2,311	2,163	2,115	2,570	2,839	3,063
Speech pathology/audiology	6,638	6,775	7,267	7,553	7,435	7,654	7,883	7,778
Veterinary sciences	854	921	945	1,172	1,235	1,267	1,322	1,430
Health related, n.e.c.	6,825	7,137	8,533	8,691	9,176	9,600	9,896	9,998

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 34. Graduate students in science, engineering, and health fields in private doctorate-granting institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	133,250	131,966	130,962	129,677	130,849	132,566	130,532	135,119
Total, science and engineering fields	117,000	114,212	113,552	111,804	111,898	113,394	112,615	116,541
Sciences, total	87,243	86,228	86,327	84,942	85,181	86,443	86,394	89,370
Physical sciences, total	9,082	8,638	8,472	8,147	7,843	8,005	7,831	7,946
Astronomy	382	356	349	307	311	321	346	378
Chemistry	5,180	4,988	4,982	4,759	4,577	4,697	4,537	4,536
Physics	3,503	3,275	3,135	3,076	2,942	2,979	2,939	3,019
Physical sciences, n.e.c.	17	19	6	5	13	8	9	13
Earth, atmos., & ocean sci., total	2,717	2,427	2,286	2,113	2,101	2,098	2,063	2,135
Atmospheric sciences	19	25	20	24	21	17	25	27
Geosciences	1,414	1,329	1,260	1,195	1,186	1,159	1,138	1,154
Oceanography	559	440	414	391	383	407	403	363
Earth, atmos., & ocean sci., n.e.c.	725	633	592	503	511	515	497	591
Mathematical sciences, total	4,216	4,081	3,965	3,728	3,737	3,634	3,307	3,353
Mathematics & applied mathematics	3,692	3,536	3,424	3,220	3,186	3,115	2,692	2,720
Statistics	524	545	541	508	551	519	615	633
Computer sciences	11,659	11,090	11,743	11,737	12,389	13,413	15,370	17,143
Agricultural sciences	438	409	404	375	383	384	464	482
Biological sciences, total	14,776	15,344	15,340	15,347	15,236	15,323	15,287	15,823
Anatomy	221	212	235	233	231	213	228	207
Biochemistry	1,677	1,649	1,520	1,469	1,498	1,499	1,426	1,381
Biology	3,373	3,505	3,529	3,657	3,551	3,383	3,182	3,177
Biometry/epidemiology	978	1,088	1,224	1,166	1,346	1,313	1,273	1,297
Biophysics	379	373	374	329	320	294	302	344
Botany	120	139	137	143	136	140	91	86
Cell biology	1,536	1,597	1,582	1,557	1,494	1,611	1,618	1,622
Ecology	106	102	98	90	89	120	126	163
Entomology/parasitology	70	62	63	60	59	58	49	51
Genetics	566	574	560	569	585	615	603	655
Microbio., immunology, & virology	1,503	1,497	1,491	1,467	1,495	1,580	1,599	1,594
Nutrition	744	815	827	825	711	668	894	915
Pathology	557	552	557	611	506	527	516	596
Pharmacology	860	838	866	847	901	909	905	1,013
Physiology	857	992	938	925	810	759	818	833
Zoology	70	87	68	64	58	58	37	55
Biosciences, n.e.c.	1,159	1,262	1,271	1,335	1,446	1,576	1,620	1,834
Psychology, total	19,587	18,995	19,320	19,256	19,724	20,011	19,254	19,738
Psychology, general	4,303	4,175	3,837	3,866	4,012	4,023	4,169	4,205
Clinical psychology	7,789	7,747	8,097	8,383	8,435	8,487	8,069	8,351
Psychology, n.e.c.	7,495	7,073	7,386	7,007	7,277	7,501	7,016	7,182
Social sciences, total	24,768	25,244	24,797	24,239	23,768	23,575	22,818	22,750
Agricultural economics	115	133	86	70	67	65	60	62
Anthropology (cultural & social)	2,019	2,091	2,095	2,066	2,063	1,993	1,984	1,944
Economics (except agricultural)	4,199	4,210	4,022	3,764	3,723	3,552	3,681	3,859
Geography	334	294	318	293	308	325	321	302
History and philosophy of science	189	189	198	221	227	207	200	198
Linguistics	860	811	875	840	786	736	695	700
Political science	11,461	11,510	11,291	10,859	10,681	10,525	10,524	10,326
Sociology	2,185	2,205	2,113	2,121	1,933	2,076	2,025	1,951
Sociology/anthropology	183	188	181	165	157	114	126	168
Social sciences, n.e.c.	3,223	3,613	3,618	3,840	3,823	3,982	3,202	3,240
Engineering, total	29,757	27,984	27,225	26,862	26,717	26,951	26,221	27,171
Aerospace engineering	781	738	741	719	801	982	987	1,006
Agricultural engineering	55	56	53	48	45	46	54	68
Biomedical engineering	1,073	1,042	1,014	961	1,008	1,078	1,142	1,332
Chemical engineering	1,979	1,949	1,989	2,024	1,958	1,969	1,941	1,940
Civil engineering	4,661	4,376	4,158	3,732	3,662	3,343	3,296	3,164
Electrical engineering	9,644	8,693	8,873	9,130	9,729	9,153	8,907	9,522
Engineering science	710	658	495	519	622	502	615	674
Industrial/manufacturing eng.	3,766	3,783	3,584	3,451	2,904	3,280	3,134	3,310
Mechanical engineering	4,318	3,889	3,559	3,553	3,170	3,276	3,244	3,342
Metallurgical/materials eng.	1,475	1,426	1,377	1,357	1,403	1,330	1,188	1,226
Mining engineering	74	73	93	100	93	106	12	5
Nuclear engineering	184	179	154	117	106	114	120	110
Petroleum engineering	128	130	113	115	108	99	96	118
Engineering, n.e.c.	909	992	1,022	1,036	1,108	1,673	1,485	1,354

See explanatory information, if any, and SOURCE at end of table.

Table 34. Graduate students in science, engineering, and health fields in private doctorate-granting institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	16,250	17,754	17,410	17,873	18,951	19,172	17,917	18,578
Medical fields, total	5,155	5,348	5,271	5,294	6,050	6,302	5,691	6,196
Anesthesiology	213	239	271	246	228	219	167	245
Cardiology	14	19	18	23	26	29	27	25
Oncology/cancer research	83	64	68	75	70	105	96	115
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology	768	848	911	898	936	908	909	963
Obstetrics and gynecology	2	5	4	13	5	3	8	8
Ophthalmology	0	2	0	0	0	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	3	0
Pediatrics	75	68	58	101	102	73	146	93
Preventive medicine/community health	3,508	3,623	3,444	3,447	4,161	4,442	3,810	3,936
Psychiatry	47	44	29	34	22	29	63	40
Pulmonary disease	0	0	0	0	0	5	6	7
Radiology	68	73	68	58	43	52	42	45
Surgery	4	6	6	3	4	4	8	8
Clinical medicine, n.e.c.	373	357	394	396	453	433	406	711
Other health fields, total	11,095	12,406	12,139	12,579	12,901	12,870	12,226	12,382
Dental sciences	292	338	308	321	314	268	217	255
Nursing	4,509	4,843	4,371	4,248	3,943	4,044	3,578	3,630
Pharmaceutical sciences	546	531	507	531	667	726	643	694
Speech pathology/audiology	1,531	1,640	1,658	1,790	1,962	1,897	1,927	2,013
Veterinary sciences	51	40	38	37	35	25	45	24
Health related, n.e.c.	4,166	5,014	5,257	5,652	5,980	5,910	5,816	5,766

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 35. Graduate students in science and engineering fields in doctorate-granting institutions,
by enrollment status, citizenship, and race/ethnicity of U.S.
citizens and permanent residents: 1994-2001**

Enrollment status, citizenship, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001
Total enrollment	379,562	370,989	365,551	359,380	357,792	362,763	367,590	384,072
Total U.S. citizens and permanent residents	282,142	276,871	272,101	264,849	260,493	258,477	251,683	257,071
American Indian/Alaskan Native	1,194	1,270	1,314	1,365	1,372	1,295	1,347	1,435
Asian/Pacific Islander	22,948	22,327	22,426	22,463	22,604	23,100	22,175	23,256
Black, non-Hispanic	13,326	13,840	14,366	14,396	14,833	15,072	15,644	16,903
Hispanic	11,097	11,688	12,150	12,653	13,018	13,852	14,197	14,836
Other or unknown	11,614	14,125	13,825	14,478	14,596	14,336	16,116	17,737
White, non-Hispanic	221,963	213,621	208,020	199,494	194,070	190,822	182,204	182,904
Students with temporary visas	97,420	94,118	93,450	94,531	97,299	104,286	115,907	127,001
Full-time enrollment	274,537	268,579	265,610	262,236	260,737	265,117	272,561	285,995
Total U.S. citizens and permanent residents	190,935	187,911	184,911	180,103	176,560	174,657	171,276	174,993
American Indian/Alaskan Native	869	953	976	999	986	910	977	1,022
Asian/Pacific Islander	16,053	15,612	15,606	15,692	15,979	16,349	15,322	16,541
Black, non-Hispanic	8,858	9,001	9,162	9,317	9,471	9,265	9,874	10,386
Hispanic	7,425	8,213	8,377	8,683	8,985	9,361	9,637	10,100
Other or unknown	6,388	7,877	7,786	8,224	8,242	8,022	9,617	10,601
White, non-Hispanic	151,342	146,255	143,004	137,188	132,897	130,750	125,849	126,343
Students with temporary visas	83,602	80,668	80,699	82,133	84,177	90,460	101,285	111,002
Part-time enrollment	105,025	102,410	99,941	97,144	97,055	97,646	95,029	98,077
Total U.S. citizens and permanent residents	91,207	88,960	87,190	84,746	83,933	83,820	80,407	82,078
American Indian/Alaskan Native	325	317	338	366	386	385	370	413
Asian/Pacific Islander	6,895	6,715	6,820	6,771	6,625	6,751	6,853	6,715
Black, non-Hispanic	4,468	4,839	5,204	5,079	5,362	5,807	5,770	6,517
Hispanic	3,672	3,475	3,773	3,970	4,033	4,491	4,560	4,736
Other or unknown	5,226	6,248	6,039	6,254	6,354	6,314	6,499	7,136
White, non-Hispanic	70,621	67,366	65,016	62,306	61,173	60,072	56,355	56,561
Students with temporary visas	13,818	13,450	12,751	12,398	13,122	13,826	14,622	15,999

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 36. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001

Page 1 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, all surveyed fields	452,411	1,811	28,082	21,666	18,650	20,626	228,541	133,035
Total, science and engineering fields	384,072	1,435	23,256	16,903	14,836	17,737	182,904	127,001
Sciences, total	280,608	1,226	15,921	14,179	11,956	13,905	146,905	76,516
Physical sciences, total	29,977	77	1,511	779	849	1,203	13,702	11,856
Astronomy	916	0	36	12	17	41	527	283
Chemistry	17,608	59	1,029	552	602	462	8,614	6,290
Physics	11,064	18	436	203	224	601	4,392	5,190
Physical sciences, n.e.c.	389	0	10	12	6	99	169	93
Earth, atmos., & ocean sci., total	12,624	61	301	199	363	367	8,654	2,679
Atmospheric sciences	918	4	36	18	15	25	547	273
Geosciences	6,175	29	126	53	138	176	4,329	1,324
Oceanography	2,405	11	47	30	135	56	1,620	506
Earth, atmos., & ocean sci., n.e.c.	3,126	17	92	98	75	110	2,158	576
Mathematical sciences, total	15,085	28	750	465	403	567	6,565	6,307
Mathematics & applied mathematics	12,100	24	592	402	365	476	5,540	4,701
Statistics	2,985	4	158	63	38	91	1,025	1,606
Computer sciences	43,860	65	4,305	1,353	677	2,441	12,584	22,435
Agricultural sciences	10,985	48	228	229	381	411	7,280	2,408
Biological sciences, total	54,099	192	4,423	2,072	2,085	2,202	31,008	12,117
Anatomy	867	4	71	26	22	13	522	209
Biochemistry	4,855	15	458	129	165	166	2,357	1,565
Biology	10,791	40	583	571	503	474	6,669	1,951
Biometry/epidemiology	3,629	11	419	171	148	181	1,848	851
Biophysics	893	1	132	17	20	32	430	261
Botany	2,174	9	99	48	43	80	1,283	612
Cell biology	4,557	9	502	128	174	252	2,427	1,065
Ecology	1,706	8	45	21	54	70	1,318	190
Entomology/parasitology	1,170	2	46	15	39	29	764	275
Genetics	1,768	7	140	52	63	90	1,005	411
Microbio., immunology, & virology	4,785	13	477	176	219	245	2,651	1,004
Nutrition	4,086	15	206	193	138	145	2,261	1,128
Pathology	1,575	11	175	49	65	70	912	293
Pharmacology	3,022	10	332	142	113	53	1,727	645
Physiology	1,944	7	288	98	60	46	1,014	431
Zoology	1,446	8	33	10	29	44	1,098	224
Biosciences, n.e.c.	4,831	22	417	226	230	212	2,722	1,002
Psychology, total	39,331	245	1,701	3,081	3,260	2,395	26,364	2,285
Psychology, general	11,628	71	548	871	551	728	8,021	838
Clinical psychology	11,344	84	533	694	1,414	757	7,466	396
Psychology, n.e.c.	16,359	90	620	1,516	1,295	910	10,877	1,051
Social sciences, total	74,647	510	2,702	6,001	3,938	4,319	40,748	16,429
Agricultural economics	2,153	4	29	76	40	72	882	1,050
Anthropology (cultural & social)	7,183	99	240	267	349	468	5,006	754
Economics (except agricultural)	10,806	21	446	267	272	443	3,274	6,083
Geography	3,923	26	83	103	89	151	2,783	688
History and philosophy of science	496	1	20	10	14	24	358	69
Linguistics	2,505	12	117	42	110	117	1,173	934
Political science	26,529	159	976	3,036	1,611	1,644	15,041	4,062
Sociology	7,748	59	321	737	484	300	4,589	1,258
Sociology/anthropology	788	16	14	121	28	39	486	84
Social sciences, n.e.c.	12,516	113	456	1,342	941	1,061	7,156	1,447
Engineering, total	103,464	209	7,335	2,724	2,880	3,832	35,999	50,485
Aerospace engineering	3,430	8	198	45	68	106	1,425	1,580
Agricultural engineering	907	3	44	26	27	22	375	410
Biomedical engineering	3,528	5	421	120	101	201	1,557	1,123
Chemical engineering	6,823	13	566	166	178	129	2,374	3,397
Civil engineering	15,838	41	705	404	692	481	7,142	6,373
Electrical engineering	33,285	44	3,080	736	699	1,339	8,147	19,240
Engineering science	1,759	9	118	33	39	127	690	743
Industrial/manufacturing eng.	12,094	32	637	562	442	539	4,658	5,224
Mechanical engineering	15,132	30	983	336	382	432	5,633	7,336
Metallurgical/materials eng.	4,642	8	227	93	76	103	1,802	2,333
Mining engineering	229	0	12	1	3	5	106	102
Nuclear engineering	801	0	27	13	34	7	364	356
Petroleum engineering	676	1	39	4	63	48	109	412
Engineering, n.e.c.	4,320	15	278	185	76	293	1,617	1,856

See explanatory information, if any, and SOURCE at end of table.

Table 36. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001

Page 2 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, health fields	68,339	376	4,826	4,763	3,814	2,889	45,637	6,034
Medical fields, total	16,694	92	1,803	1,453	1,379	818	9,020	2,129
Anesthesiology	624	5	33	30	15	17	522	2
Cardiology	50	0	11	1	0	1	21	16
Oncology/cancer research	261	1	32	10	9	1	158	50
Endocrinology	53	0	5	1	1	5	22	19
Gastroenterology	7	0	0	0	0	0	6	1
Hematology	6	0	0	0	0	1	5	0
Neurology	2,136	11	221	62	78	115	1,284	365
Obstetrics and gynecology	28	1	4	4	2	0	15	2
Ophthalmology	46	0	10	0	1	0	24	11
Otorhinolaryngology	4	1	0	0	0	0	3	0
Pediatrics	380	3	28	17	16	11	262	43
Preventive medicine/community health	10,913	57	1,096	1,203	1,072	539	5,515	1,431
Psychiatry	169	3	8	12	22	2	120	2
Pulmonary disease	8	0	2	2	0	0	4	0
Radiology	198	2	31	4	4	11	108	38
Surgery	130	1	31	5	16	0	65	12
Clinical medicine, n.e.c.	1,681	7	291	102	143	115	886	137
Other health fields, total	51,645	284	3,023	3,310	2,435	2,071	36,617	3,905
Dental sciences	1,494	4	148	31	82	36	861	332
Nursing	19,385	126	824	1,379	778	772	15,010	496
Pharmaceutical sciences	3,757	20	536	160	202	78	1,349	1,412
Speech pathology/audiology	9,791	52	241	479	491	456	7,664	408
Veterinary sciences	1,454	4	41	38	35	23	957	356
Health related, n.e.c.	15,764	78	1,233	1,223	847	706	10,776	901

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 37. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	308,279	304,738	303,653	301,976	301,936	308,502	315,698	330,043
Total, science and engineering fields	274,537	268,579	265,610	262,236	260,737	265,117	272,561	285,995
Sciences, total	205,211	202,929	201,688	198,356	197,033	199,113	201,683	210,292
Physical sciences, total	29,308	28,186	27,268	26,242	25,762	26,128	26,089	26,721
Astronomy	953	871	854	768	787	808	823	860
Chemistry	16,679	16,307	16,046	15,557	15,302	15,585	15,365	15,708
Physics	11,512	10,834	10,221	9,795	9,552	9,555	9,706	9,936
Physical sciences, n.e.c.	164	174	147	122	121	180	195	217
Earth, atmos., & ocean sci., total	10,885	10,717	10,277	9,966	10,004	10,029	10,102	10,014
Atmospheric sciences	981	956	977	964	854	791	842	811
Geosciences	5,783	5,610	5,407	5,242	5,070	5,093	5,129	5,078
Oceanography	2,263	2,183	2,038	1,924	2,005	2,074	2,117	2,003
Earth, atmos., & ocean sci., n.e.c.	1,858	1,968	1,855	1,836	2,075	2,071	2,014	2,122
Mathematical sciences, total	13,460	12,725	12,302	11,528	11,124	11,137	11,130	11,992
Mathematics & applied mathematics	11,210	10,468	10,068	9,463	9,104	9,031	8,911	9,563
Statistics	2,250	2,257	2,234	2,065	2,020	2,106	2,219	2,429
Computer sciences	15,349	15,159	15,588	16,528	17,904	20,073	23,242	26,977
Agricultural sciences	9,093	9,120	8,844	8,640	8,474	8,634	8,661	8,649
Biological sciences, total	46,076	46,291	45,727	44,968	45,135	45,178	45,305	46,676
Anatomy	922	904	950	942	868	844	884	806
Biochemistry	5,183	5,173	4,955	4,782	4,846	4,778	4,696	4,617
Biology	8,693	8,509	8,529	8,828	8,673	8,482	8,440	8,603
Biometry/epidemiology	2,056	2,093	2,162	2,005	2,583	2,581	2,541	2,665
Biophysics	770	800	728	707	681	717	853	
Botany	2,345	2,146	2,128	2,049	1,989	1,949	1,888	1,902
Cell biology	3,653	3,796	3,795	3,779	3,855	4,072	4,213	4,330
Ecology	1,187	1,276	1,239	1,157	1,179	1,220	1,210	1,353
Entomology/parasitology	1,066	1,041	1,027	995	1,000	971	979	989
Genetics	1,553	1,572	1,605	1,620	1,579	1,620	1,590	1,678
Microbio., immunology, & virology	4,653	4,627	4,484	4,365	4,370	4,471	4,498	4,495
Nutrition	3,069	3,268	3,295	3,127	2,984	2,985	2,983	3,091
Pathology	1,359	1,350	1,339	1,418	1,327	1,351	1,288	1,360
Pharmacology	2,681	2,539	2,510	2,461	2,550	2,551	2,591	2,633
Physiology	2,221	2,376	2,217	2,102	1,990	1,876	1,851	1,811
Zoology	1,648	1,679	1,566	1,452	1,364	1,322	1,270	1,266
Biosciences, n.e.c.	3,017	3,142	3,119	3,158	3,271	3,424	3,666	4,224
Psychology, total	28,439	28,336	28,557	28,836	28,701	28,461	28,338	28,471
Psychology, general	9,670	9,395	8,700	9,199	9,180	8,797	8,989	8,880
Clinical psychology	7,919	8,151	8,671	8,981	9,046	9,141	8,915	9,044
Psychology, n.e.c.	10,850	10,790	11,186	10,656	10,475	10,523	10,434	10,547
Social sciences, total	52,601	52,395	53,125	51,648	49,929	49,473	48,816	50,792
Agricultural economics	1,892	1,948	1,759	1,697	1,670	1,685	1,777	1,865
Anthropology (cultural & social)	5,740	5,679	5,882	5,647	5,570	5,611	5,456	5,450
Economics (except agricultural)	9,635	9,382	9,232	8,542	8,287	8,108	8,330	8,890
Geography	2,793	2,704	2,735	2,714	2,672	2,573	2,471	2,738
History and philosophy of science	336	340	348	377	385	412	373	372
Linguistics	2,420	2,382	2,433	2,332	2,196	2,107	2,037	2,088
Political science	16,364	15,966	16,045	15,431	14,811	14,761	14,618	15,099
Sociology	6,282	6,270	6,160	6,192	5,939	5,862	5,798	5,832
Sociology/anthropology	630	607	576	613	593	507	515	560
Social sciences, n.e.c.	6,509	7,117	7,955	8,103	7,806	7,847	7,441	7,898
Engineering, total	69,326	65,650	63,922	63,880	63,704	66,004	70,878	75,703
Aerospace engineering	2,967	2,668	2,545	2,505	2,544	2,623	2,740	2,833
Agricultural engineering	879	859	799	748	756	767	706	758
Biomedical engineering	2,246	2,277	2,281	2,411	2,475	2,708	2,841	3,090
Chemical engineering	6,058	5,917	5,865	5,750	5,597	5,554	5,843	5,796
Civil engineering	12,155	11,762	11,368	11,038	10,800	10,900	11,536	11,836
Electrical engineering	18,638	17,481	17,323	18,209	18,804	19,503	22,044	24,290
Engineering science	1,343	1,241	1,054	1,016	1,111	1,027	1,086	1,207
Industrial/manufacturing eng.	5,716	5,123	4,976	4,955	4,746	5,341	5,967	6,372
Mechanical engineering	11,621	10,914	10,414	10,174	9,900	10,092	10,776	11,253
Metallurgical/materials eng.	4,084	3,864	3,687	3,646	3,684	3,514	3,568	3,942
Mining engineering	278	260	261	260	217	252	182	185
Nuclear engineering	997	883	771	708	662	641	660	651
Petroleum engineering	509	437	435	457	478	523	513	512
Engineering, n.e.c.	1,835	1,964	2,143	2,003	1,930	2,559	2,416	2,978

See explanatory information, if any, and SOURCE at end of table.

Table 37. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	33,742	36,159	38,043	39,740	41,199	43,385	43,137	44,048
Medical fields, total	8,852	9,448	9,459	9,653	10,528	11,136	10,685	11,394
Anesthesiology	346	373	496	483	494	455	473	514
Cardiology	14	19	18	32	36	62	53	50
Oncology/cancer research	200	180	182	193	206	245	223	246
Endocrinology	62	51	46	41	58	66	55	51
Gastroenterology	0	0	0	3	6	7	14	7
Hematology	2	1	3	3	1	3	6	6
Neurology	1,424	1,511	1,599	1,650	1,773	1,853	1,922	2,072
Obstetrics and gynecology	4	6	4	18	10	9	13	18
Ophthalmology	18	20	17	20	21	31	41	33
Otorhinolaryngology	2	0	0	2	0	3	8	4
Pediatrics	225	205	220	275	260	276	351	316
Preventive medicine/community health	5,333	5,855	5,709	5,681	6,479	6,849	6,191	6,437
Psychiatry	91	96	70	80	40	50	80	63
Pulmonary disease	0	0	0	0	0	6	7	8
Radiology	256	225	189	198	160	168	149	167
Surgery	107	160	157	157	109	113	128	97
Clinical medicine, n.e.c.	768	746	749	817	875	940	971	1,305
Other health fields, total	24,890	26,711	28,584	30,087	30,671	32,249	32,452	32,654
Dental sciences	1,078	1,150	1,178	1,290	1,284	1,226	1,301	1,322
Nursing	6,707	7,168	7,158	7,501	7,322	8,052	7,639	7,783
Pharmaceutical sciences	2,175	2,138	2,214	2,219	2,197	2,521	2,680	2,833
Speech pathology/audiology	6,427	6,473	6,899	7,244	7,370	7,651	7,683	7,732
Veterinary sciences	724	758	769	1,015	1,036	1,031	1,154	1,225
Health related, n.e.c.	7,779	9,024	10,366	10,818	11,462	11,768	11,995	11,759

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 38. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1994-2001

Page 1 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields								
Total, all sources	308,279	304,738	303,653	301,976	301,936	308,502	315,698	330,043
Federal, total	66,919	65,813	63,954	63,166	62,627	64,565	66,502	67,589
Dept. of Defense	9,312	9,155	8,623	8,863	8,183	7,931	8,073	7,872
Dept. of Energy ¹	na	na	na	na	na	2,722	2,985	3,104
Dept. of HHS, total	22,154	22,260	21,889	21,964	22,264	23,010	23,084	23,716
NIH	18,114	17,966	17,828	17,907	18,076	18,868	19,387	19,623
Other HHS	4,040	4,294	4,061	4,057	4,188	4,142	3,697	4,093
NASA ²	na	na	2,226	2,502	2,578	2,475	2,728	2,770
NSF	13,766	13,541	13,339	13,301	13,397	13,772	14,550	15,365
USDA	3,364	3,200	2,946	2,596	2,415	2,582	2,617	2,734
All other Federal	18,323	17,657	14,931	13,940	13,790	12,073	12,465	12,028
Institutional support	123,843	123,881	122,656	123,317	123,217	127,133	127,238	134,707
Other outside support, total	26,770	25,455	24,826	24,561	25,867	25,531	27,290	27,739
All other U.S.	21,114	19,979	19,647	19,749	21,638	21,641	23,482	23,980
Foreign	5,656	5,476	5,179	4,812	4,229	3,890	3,808	3,759
Self-support	90,747	89,589	92,217	90,932	90,225	91,273	94,668	100,008
Total, science and engineering								
Total, all sources	274,537	268,579	265,610	262,236	260,737	265,117	272,561	285,995
Federal, total	59,761	58,525	57,063	56,010	55,165	56,576	58,636	59,402
Dept. of Defense	8,949	8,830	8,312	8,555	7,893	7,582	7,674	7,596
Dept. of Energy ¹	na	na	na	na	na	2,701	2,970	3,093
Dept. of HHS, total	17,024	17,012	16,798	16,688	16,622	17,110	17,590	17,900
NIH	15,833	15,588	15,392	15,245	15,218	15,884	16,245	16,378
Other HHS	1,191	1,424	1,406	1,443	1,404	1,226	1,345	1,522
NASA ²	na	na	2,212	2,481	2,552	2,460	2,710	2,748
NSF	13,658	13,450	13,258	13,206	13,277	13,649	14,427	15,236
USDA	3,295	3,150	2,902	2,561	2,366	2,533	2,555	2,690
All other Federal	16,835	16,083	13,581	12,519	12,455	10,541	10,710	10,139
Institutional support	116,002	115,592	114,266	114,469	114,123	117,267	117,432	124,701
Other outside support, total	24,946	23,502	22,866	22,668	23,776	23,412	24,887	25,356
All other U.S.	19,748	18,549	18,112	18,340	19,977	19,941	21,434	21,964
Foreign	5,198	4,953	4,754	4,328	3,799	3,471	3,453	3,392
Self-support	73,828	70,960	71,415	69,089	67,673	67,862	71,606	76,536
Sciences, total								
Total, all sources	205,211	202,929	201,688	198,356	197,033	199,113	201,683	210,292
Federal, total	43,224	42,372	41,464	40,336	39,751	40,833	41,998	42,442
Dept. of Defense	4,301	4,098	3,853	3,855	3,606	3,283	3,221	3,206
Dept. of Energy ¹	na	na	na	na	na	1,719	1,765	1,806
Dept. of HHS, total	16,122	16,094	15,963	15,773	15,722	16,149	16,457	16,625
NIH	15,055	14,820	14,661	14,479	14,464	15,040	15,248	15,257
Other HHS	1,067	1,274	1,302	1,294	1,258	1,109	1,209	1,368
NASA ²	na	na	1,153	1,258	1,330	1,362	1,449	1,408
NSF	9,052	8,910	8,700	8,614	8,586	8,726	9,225	9,832
USDA	2,943	2,802	2,601	2,330	2,169	2,293	2,338	2,430
All other Federal	10,806	10,468	9,194	8,506	8,338	7,301	7,543	7,135
Institutional support	91,950	92,265	91,302	91,139	91,088	92,544	91,708	97,275
Other outside support, total	15,694	14,503	14,093	13,780	14,081	13,985	14,437	14,390
All other U.S.	12,093	11,180	10,863	10,885	11,488	11,627	12,067	12,062
Foreign	3,601	3,323	3,230	2,895	2,593	2,358	2,370	2,328
Self-support	54,343	53,789	54,829	53,101	52,113	51,751	53,540	56,185
Physical sciences								
Total, all sources	29,308	28,186	27,268	26,242	25,762	26,128	26,089	26,721
Federal, total	10,935	10,249	9,790	9,357	9,048	9,161	9,179	9,258
Dept. of Defense	1,309	1,193	1,067	1,031	991	880	864	855
Dept. of Energy ¹	na	na	na	na	na	1,178	1,168	1,256
Dept. of HHS, total	2,179	2,044	2,037	1,930	1,866	1,825	1,954	2,087
NIH	2,050	1,877	1,771	1,626	1,621	1,650	1,761	1,832
Other HHS	129	167	266	304	245	175	193	255
NASA ²	na	na	522	569	577	538	516	490
NSF	3,690	3,571	3,372	3,369	3,314	3,271	3,283	3,337
USDA	42	38	43	30	19	31	51	42
All other Federal	3,715	3,403	2,749	2,428	2,281	1,438	1,343	1,191
Institutional support	14,424	14,423	13,947	13,796	13,689	13,866	13,587	14,206
Other outside support, total	2,300	2,070	2,065	1,847	1,842	1,912	1,909	1,951
All other U.S.	1,994	1,783	1,786	1,633	1,653	1,740	1,741	1,824
Foreign	306	287	279	214	189	172	168	127
Self-support	1,649	1,444	1,466	1,242	1,183	1,189	1,414	1,306

See explanatory information, if any, and SOURCE at end of table.

Table 38. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1994-2001

Page 2 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Earth, atmos., & ocean sci.								
Total, all sources	10,885	10,717	10,277	9,966	10,004	10,029	10,102	10,014
Federal, total	3,576	3,442	3,256	3,083	2,935	2,937	2,945	2,878
Dept. of Defense	494	408	390	364	336	335	278	257
Dept. of Energy ¹	na	na	na	na	na	123	144	137
Dept. of HHS, total	37	33	49	40	38	37	57	60
NIH	36	30	30	27	21	17	40	37
Other HHS	1	3	19	13	17	20	17	23
NASA ²	na	na	328	351	388	405	453	456
NSF	1,394	1,376	1,238	1,198	1,115	1,123	1,129	1,119
USDA	61	64	74	51	76	53	48	65
All other Federal	1,590	1,561	1,177	1,079	982	861	836	784
Institutional support	4,122	4,189	4,039	4,136	4,227	4,497	4,411	4,455
Other outside support, total	1,013	956	887	872	843	838	874	874
All other U.S.	781	722	670	688	679	678	729	689
Foreign	232	234	217	184	164	160	145	185
Self-support	2,174	2,130	2,095	1,875	1,999	1,757	1,872	1,807
Mathematical sciences								
Total, all sources	13,460	12,725	12,302	11,528	11,124	11,137	11,130	11,992
Federal, total	1,372	1,264	1,227	1,140	1,038	1,094	1,351	1,373
Dept. of Defense	371	321	350	363	283	227	237	211
Dept. of Energy ¹	na	na	na	na	na	41	39	40
Dept. of HHS, total	76	87	82	96	100	105	92	108
NIH	68	63	61	66	68	78	76	89
Other HHS	8	24	21	30	32	27	16	19
NASA ²	na	na	21	19	11	14	23	23
NSF	509	465	435	383	384	438	633	757
USDA	16	13	9	16	7	7	7	20
All other Federal	400	378	330	263	253	262	320	214
Institutional support	9,063	8,764	8,516	8,179	7,996	7,967	7,903	8,341
Other outside support, total	524	473	534	463	428	399	404	491
All other U.S.	312	288	330	291	292	282	283	282
Foreign	212	185	204	172	136	117	121	209
Self-support	2,501	2,224	2,025	1,746	1,662	1,677	1,472	1,787
Computer sciences								
Total, all sources	15,349	15,159	15,588	16,528	17,904	20,073	23,242	26,977
Federal, total	3,010	3,112	3,079	3,117	3,270	3,309	3,595	4,162
Dept. of Defense	1,312	1,390	1,336	1,414	1,299	1,201	1,203	1,247
Dept. of Energy ¹	na	na	na	na	na	109	111	120
Dept. of HHS, total	97	110	113	106	110	107	120	172
NIH	89	92	80	78	75	64	82	101
Other HHS	8	18	33	28	35	43	38	71
NASA ²	na	na	119	114	122	110	142	165
NSF	1,041	1,051	1,046	1,076	1,164	1,297	1,476	1,856
USDA	9	13	13	12	10	17	16	25
All other Federal	551	548	452	395	565	468	527	577
Institutional support	5,100	5,164	5,299	5,559	5,826	6,536	7,118	8,331
Other outside support, total	1,342	1,249	1,091	1,131	1,243	1,476	1,804	1,783
All other U.S.	1,066	1,024	851	974	1,078	1,342	1,540	1,548
Foreign	276	225	240	157	165	134	264	235
Self-support	5,897	5,634	6,119	6,721	7,565	8,752	10,725	12,701
Agricultural sciences								
Total, all sources	9,093	9,120	8,844	8,640	8,474	8,634	8,661	8,649
Federal, total	1,887	1,998	1,913	1,719	1,600	1,833	1,883	1,917
Dept. of Defense	35	32	38	38	47	28	42	47
Dept. of Energy ¹	na	na	na	na	na	38	45	27
Dept. of HHS, total	48	23	31	29	28	25	57	40
NIH	45	17	17	21	13	15	37	29
Other HHS	3	6	14	8	15	10	20	11
NASA ²	na	na	22	20	26	50	65	56
NSF	87	88	95	100	90	106	103	128
USDA	1,089	1,164	1,029	919	908	1,017	1,005	1,047
All other Federal	628	691	698	613	501	569	566	572
Institutional support	3,685	3,724	3,534	3,513	3,592	3,640	3,596	3,760
Other outside support, total	1,677	1,488	1,464	1,577	1,584	1,567	1,663	1,521
All other U.S.	1,166	1,090	1,118	1,241	1,293	1,313	1,430	1,340
Foreign	511	398	346	336	291	254	233	181
Self-support	1,844	1,910	1,933	1,831	1,698	1,594	1,519	1,451

See explanatory information, if any, and SOURCE at end of table.

Table 38. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1994-2001

Page 3 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Biological sciences								
Total, all sources	46,076	46,291	45,727	44,968	45,135	45,178	45,305	46,676
Federal, total	16,571	16,506	16,428	16,194	16,073	16,346	16,595	16,561
Dept. of Defense	347	354	355	359	343	327	317	338
Dept. of Energy ¹	na	na	na	na	na	152	171	165
Dept. of HHS, total	11,918	12,008	11,818	11,797	11,853	12,173	12,218	12,220
NIH	11,403	11,336	11,229	11,213	11,238	11,689	11,649	11,547
Other HHS	515	672	589	584	615	484	569	673
NASA ²	na	na	84	108	101	96	97	73
NSF	1,369	1,404	1,484	1,524	1,535	1,498	1,606	1,616
USDA	1,278	1,076	1,065	922	794	830	808	840
All other Federal	1,659	1,664	1,622	1,484	1,447	1,270	1,378	1,309
Institutional support	19,853	19,943	19,508	19,378	19,434	19,586	19,466	20,512
Other outside support, total	4,097	3,852	3,696	3,510	3,695	3,299	3,398	3,629
All other U.S.	3,469	3,251	3,141	2,993	3,168	2,842	2,975	3,260
Foreign	628	601	555	517	527	457	423	369
Self-support	5,555	5,990	6,095	5,886	5,933	5,947	5,846	5,974
Psychology								
Total, all sources	28,439	28,336	28,557	28,836	28,701	28,461	28,338	28,471
Federal, total	2,524	2,464	2,659	2,644	2,831	3,119	3,164	3,054
Dept. of Defense	171	173	136	110	121	116	133	135
Dept. of Energy ¹	na	na	na	na	na	41	25	1
Dept. of HHS, total	1,346	1,319	1,510	1,445	1,423	1,535	1,583	1,566
NIH	1,080	1,088	1,211	1,186	1,212	1,263	1,312	1,345
Other HHS	266	231	299	259	211	272	271	221
NASA ²	na	na	7	12	14	15	17	21
NSF	287	286	287	277	275	301	273	280
USDA	27	16	5	7	8	13	16	13
All other Federal	693	670	714	793	990	1,098	1,117	1,038
Institutional support	11,787	11,720	11,779	12,161	11,833	11,836	11,096	11,614
Other outside support, total	1,142	1,071	954	1,185	1,301	1,375	1,291	1,168
All other U.S.	1,069	1,028	915	1,128	1,249	1,320	1,242	1,126
Foreign	73	43	39	57	52	55	49	42
Self-support	12,986	13,081	13,165	12,846	12,736	12,131	12,787	12,635
Social sciences								
Total, all sources	52,601	52,395	53,125	51,648	49,929	49,473	48,816	50,792
Federal, total	3,349	3,337	3,112	3,082	2,956	3,034	3,286	3,239
Dept. of Defense	262	227	181	176	186	169	147	116
Dept. of Energy ¹	na	na	na	na	na	37	62	60
Dept. of HHS, total	421	470	323	330	304	342	376	372
NIH	284	317	262	262	216	264	291	277
Other HHS	137	153	61	68	88	78	85	95
NASA ²	na	na	50	65	91	134	136	124
NSF	675	669	743	687	709	692	722	739
USDA	421	418	363	373	347	325	387	378
All other Federal	1,570	1,553	1,452	1,451	1,319	1,335	1,456	1,450
Institutional support	23,916	24,338	24,680	24,417	24,491	24,616	24,531	26,056
Other outside support, total	3,599	3,344	3,402	3,195	3,145	3,119	3,094	2,973
All other U.S.	2,236	1,994	2,052	1,937	2,076	2,110	2,127	1,993
Foreign	1,363	1,350	1,350	1,258	1,069	1,009	967	980
Self-support	21,737	21,376	21,931	20,954	19,337	18,704	17,905	18,524
Engineering, total								
Total, all sources	69,326	65,650	63,922	63,880	63,704	66,004	70,878	75,703
Federal, total	16,537	16,153	15,599	15,674	15,414	15,743	16,638	16,960
Dept. of Defense	4,648	4,732	4,459	4,700	4,287	4,299	4,453	4,390
Dept. of Energy ¹	na	na	na	na	na	982	1,205	1,287
Dept. of HHS, total	902	918	835	915	900	961	1,133	1,275
NIH	778	768	731	766	754	844	997	1,121
Other HHS	124	150	104	149	146	117	136	154
NASA ²	na	na	1,059	1,223	1,222	1,098	1,261	1,340
NSF	4,606	4,540	4,558	4,592	4,691	4,923	5,202	5,404
USDA	352	348	301	231	197	240	217	260
All other Federal	6,029	5,615	4,387	4,013	4,117	3,240	3,167	3,004
Institutional support	24,052	23,327	22,964	23,330	23,035	24,723	25,724	27,426
Other outside support, total	9,252	8,999	8,773	8,888	9,695	9,427	10,450	10,966
All other U.S.	7,655	7,369	7,249	7,455	8,489	8,314	9,367	9,902
Foreign	1,597	1,630	1,524	1,433	1,206	1,113	1,083	1,064
Self-support	19,485	17,171	16,586	15,988	15,560	16,111	18,066	20,351

See explanatory information, if any, and SOURCE at end of table.

Table 38. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1994-2001

Page 4 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Chemical engineering								
Total, all sources	6,058	5,917	5,865	5,750	5,597	5,554	5,843	5,796
Federal, total	1,725	1,753	1,783	1,649	1,699	1,666	1,672	1,680
Dept. of Defense	128	164	166	161	160	161	113	140
Dept. of Energy ¹	na	na	na	na	na	220	242	257
Dept. of HHS, total	173	163	162	137	141	149	155	179
NIH	143	136	148	121	111	127	128	136
Other HHS	30	27	14	16	30	22	27	43
NASA ²	na	na	89	77	97	101	102	108
NSF	747	759	776	706	755	742	770	709
USDA	73	74	45	43	39	37	35	35
All other Federal	604	593	545	525	507	256	255	252
Institutional support	2,377	2,245	2,143	2,203	2,106	2,271	2,290	2,229
Other outside support, total	1,148	1,074	1,107	1,129	947	970	1,086	1,095
All other U.S.	1,040	939	950	949	834	896	982	984
Foreign	108	135	157	180	113	74	104	111
Self-support	808	845	832	769	845	647	795	792
Civil engineering								
Total, all sources	12,155	11,762	11,368	11,038	10,800	10,900	11,536	11,836
Federal, total	2,019	1,917	1,843	1,781	1,658	1,654	1,924	1,911
Dept. of Defense	315	271	196	223	187	150	157	175
Dept. of Energy ¹	na	na	na	na	na	50	84	82
Dept. of HHS, total	45	41	39	47	46	44	51	27
NIH	37	31	33	41	35	39	40	26
Other HHS	8	10	6	6	11	5	11	1
NASA ²	na	na	117	121	60	56	74	78
NSF	553	528	534	529	541	537	595	593
USDA	53	53	70	40	28	35	36	38
All other Federal	1,053	1,024	887	821	796	782	927	918
Institutional support	4,671	4,780	4,674	4,668	4,549	4,811	4,908	4,933
Other outside support, total	1,219	1,148	1,141	1,096	1,123	1,110	1,353	1,506
All other U.S.	938	869	898	841	909	922	1,189	1,330
Foreign	281	279	243	255	214	188	164	176
Self-support	4,246	3,917	3,710	3,493	3,470	3,325	3,351	3,486
Electrical engineering								
Total, all sources	18,638	17,481	17,323	18,209	18,804	19,503	22,044	24,290
Federal, total	3,973	4,003	3,925	4,332	4,287	4,580	5,018	4,930
Dept. of Defense	1,649	1,699	1,647	1,931	1,800	1,841	2,066	1,965
Dept. of Energy ¹	na	na	na	na	na	71	93	138
Dept. of HHS, total	100	113	93	117	102	102	181	145
NIH	83	84	71	70	79	85	139	106
Other HHS	17	29	22	47	23	17	42	39
NASA ²	na	na	162	214	243	264	282	324
NSF	1,265	1,297	1,296	1,339	1,296	1,470	1,581	1,630
USDA	24	33	12	14	12	10	12	13
All other Federal	935	861	715	717	834	822	803	715
Institutional support	6,228	6,078	6,263	6,549	6,431	6,914	7,167	7,848
Other outside support, total	2,578	2,564	2,630	2,703	3,118	2,814	3,195	3,388
All other U.S.	2,178	2,146	2,251	2,369	2,841	2,536	2,946	3,141
Foreign	400	418	379	334	277	278	249	247
Self-support	5,859	4,836	4,505	4,625	4,968	5,195	6,664	8,124
Industrial engineering								
Total, all sources	5,716	5,123	4,976	4,955	4,746	5,341	5,967	6,372
Federal, total	608	627	625	593	584	706	809	797
Dept. of Defense	168	167	208	198	179	250	236	240
Dept. of Energy ¹	na	na	na	na	na	12	31	46
Dept. of HHS, total	50	54	49	36	31	33	34	40
NIH	28	27	27	30	25	20	21	29
Other HHS	22	27	22	6	6	13	13	11
NASA ²	na	na	24	21	32	27	26	29
NSF	203	172	169	143	175	218	260	272
USDA	1	0	1	1	4	2	7	8
All other Federal	186	234	174	194	163	164	215	162
Institutional support	1,859	1,799	1,754	1,681	1,708	1,906	2,124	2,393
Other outside support, total	553	498	465	510	548	575	681	725
All other U.S.	458	415	350	406	448	486	574	605
Foreign	95	83	115	104	100	89	107	120
Self-support	2,696	2,199	2,132	2,171	1,906	2,154	2,353	2,457

See explanatory information, if any, and SOURCE at end of table.

Table 38. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1994-2001

Page 5 of 5

Field and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Mechanical engineering								
Total, all sources	11,621	10,914	10,414	10,174	9,900	10,092	10,776	11,253
Federal, total	2,882	2,725	2,544	2,573	2,581	2,561	2,657	2,743
Dept. of Defense	763	800	708	734	712	703	655	674
Dept. of Energy ¹	na	na	na	na	na	206	239	214
Dept. of HHS, total	79	93	76	109	104	112	112	159
NIH	70	82	63	70	71	87	105	147
Other HHS	9	11	13	39	33	25	7	12
NASA ²	na	na	201	282	285	237	292	280
NSF	779	734	763	837	903	878	913	999
USDA	10	4	13	12	5	21	7	11
All other Federal	1,251	1,094	783	599	572	404	439	406
Institutional support	4,012	3,823	3,860	3,825	3,771	3,954	4,181	4,432
Other outside support, total	1,551	1,588	1,439	1,441	1,601	1,574	1,738	1,692
All other U.S.	1,313	1,335	1,237	1,273	1,458	1,408	1,543	1,546
Foreign	238	253	202	168	143	166	195	146
Self-support	3,176	2,778	2,571	2,335	1,947	2,003	2,200	2,386
Other engineering								
Total, all sources	15,138	14,453	13,976	13,754	13,857	14,614	14,712	16,156
Federal, total	5,330	5,128	4,879	4,746	4,605	4,576	4,558	4,899
Dept. of Defense	1,625	1,631	1,534	1,453	1,249	1,194	1,226	1,196
Dept. of Energy ¹	na	na	na	na	na	423	516	550
Dept. of HHS, total	455	454	416	469	476	521	600	725
NIH	417	408	389	434	433	486	564	677
Other HHS	38	46	27	35	43	35	36	48
NASA ²	na	na	466	508	505	413	485	521
NSF	1,059	1,050	1,020	1,038	1,021	1,078	1,083	1,201
USDA	191	184	160	121	109	135	120	155
All other Federal	2,000	1,809	1,283	1,157	1,245	812	528	551
Institutional support	4,905	4,602	4,270	4,404	4,470	4,867	5,054	5,591
Other outside support, total	2,203	2,127	1,991	2,009	2,358	2,384	2,397	2,560
All other U.S.	1,728	1,665	1,563	1,617	1,999	2,066	2,133	2,296
Foreign	475	462	428	392	359	318	264	264
Self-support	2,700	2,596	2,836	2,595	2,424	2,787	2,703	3,106
Total, health fields								
Total, all sources	33,742	36,159	38,043	39,740	41,199	43,385	43,137	44,048
Federal, total	7,158	7,288	6,891	7,156	7,462	7,989	7,866	8,187
Dept. of Defense	363	325	311	308	290	349	399	276
Dept. of Energy ¹	na	na	na	na	na	21	15	11
Dept. of HHS, total	5,130	5,248	5,091	5,276	5,642	5,900	5,494	5,816
NIH	2,281	2,378	2,436	2,662	2,858	2,984	3,142	3,245
Other HHS	2,849	2,870	2,655	2,614	2,784	2,916	2,352	2,571
NASA ²	na	na	14	21	26	15	18	22
NSF	108	91	81	95	120	123	123	129
USDA	69	50	44	35	49	49	62	44
All other Federal	1,488	1,574	1,350	1,421	1,335	1,532	1,755	1,889
Institutional support	7,841	8,289	8,390	8,848	9,094	9,866	9,806	10,006
Other outside support, total	1,824	1,953	1,960	1,893	2,091	2,119	2,403	2,383
All other U.S.	1,366	1,430	1,535	1,409	1,661	1,700	2,048	2,016
Foreign	458	523	425	484	430	419	355	367
Self-support	16,919	18,629	20,802	21,843	22,552	23,411	23,062	23,472

¹ Data for Department of Energy were not collected separately prior to 1999. Students supported by the Department of Energy prior to 1999 were included under "All other Federal" support.

² Data for NASA were not collected separately prior to 1996. Students supported by NASA prior to 1996 were included under "All other Federal" support.

KEY: HHS = Department of Health & Human Services
 NIH = National Institutes of Health
 NASA = National Aeronautics & Space Administration
 NSF = National Science Foundation
 USDA = United States Department of Agriculture
 na = Not available

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 39. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary mechanism of support: 1994-2001

Page 1 of 2

Field and primary mechanism of support	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields:								
Total, all types	308,279	304,738	303,653	301,976	301,936	308,502	315,698	330,043
Fellowships	28,332	28,308	28,246	28,338	28,579	29,572	30,824	31,671
Traineeships	14,886	15,187	14,701	13,681	14,319	14,102	13,549	13,566
Research assistantships	89,598	87,556	85,346	85,495	85,807	88,609	92,023	97,699
Teaching assistantships	64,673	63,883	63,698	63,346	63,104	64,093	64,288	66,036
Other types of support	110,790	109,804	111,662	111,116	110,127	112,126	115,014	121,071
Total, science and engineering:								
Total, all types	274,537	268,579	265,610	262,236	260,737	265,117	272,561	285,995
Fellowships	26,244	26,166	25,818	25,941	26,144	26,932	27,993	29,174
Traineeships	10,109	10,396	10,158	9,475	9,680	9,344	9,374	9,005
Research assistantships	85,459	83,298	81,226	80,906	81,040	83,590	86,496	91,837
Teaching assistantships	62,006	61,156	60,803	60,354	60,091	61,147	61,354	62,873
Other types of support	90,719	87,563	87,605	85,560	83,782	84,104	87,344	93,106
Sciences, total:								
Total, all types	205,211	202,929	201,688	198,356	197,033	199,113	201,683	210,292
Fellowships	20,386	20,309	20,259	20,253	20,629	20,902	21,669	22,767
Traineeships	9,196	9,397	9,295	8,600	8,804	8,577	8,644	8,293
Research assistantships	57,722	56,522	54,992	54,270	53,832	55,264	55,961	59,779
Teaching assistantships	51,511	51,207	50,989	50,403	50,139	50,647	50,480	51,257
Other types of support	66,396	65,494	66,153	64,830	63,629	63,723	64,929	68,196
Physical sciences:								
Total, all types	29,308	28,186	27,268	26,242	25,762	26,128	26,089	26,721
Fellowships	2,388	2,304	2,156	2,091	2,080	2,174	2,234	2,357
Traineeships	664	672	630	517	479	381	459	456
Research assistantships	12,216	11,687	11,366	11,148	10,912	11,162	11,008	11,719
Teaching assistantships	11,639	11,418	10,985	10,689	10,594	10,680	10,537	10,364
Other types of support	2,401	2,105	2,131	1,797	1,697	1,731	1,851	1,825
Earth, atmos., & ocean sci.:								
Total, all types	10,885	10,717	10,277	9,966	10,004	10,029	10,102	10,014
Fellowships	864	883	866	810	920	924	1,044	1,063
Traineeships	138	131	131	89	113	107	98	90
Research assistantships	4,692	4,501	4,197	4,140	3,984	4,123	4,114	4,042
Teaching assistantships	2,404	2,426	2,409	2,527	2,460	2,477	2,410	2,450
Other types of support	2,787	2,776	2,674	2,400	2,527	2,398	2,436	2,369
Mathematical sciences:								
Total, all types	13,460	12,725	12,302	11,528	11,124	11,137	11,130	11,992
Fellowships	1,202	1,290	1,274	1,194	1,091	1,022	1,280	1,387
Traineeships	244	216	177	176	153	106	117	105
Research assistantships	1,460	1,367	1,230	1,311	1,132	1,199	1,184	1,403
Teaching assistantships	7,310	7,002	6,891	6,494	6,377	6,560	6,608	6,665
Other types of support	3,244	2,850	2,730	2,353	2,371	2,250	1,941	2,432
Computer sciences:								
Total, all types	15,349	15,159	15,588	16,528	17,904	20,073	23,242	26,977
Fellowships	887	893	888	894	981	974	1,131	980
Traineeships	231	204	172	196	210	198	251	240
Research assistantships	3,741	3,781	3,846	3,907	4,178	4,729	5,061	6,316
Teaching assistantships	3,276	3,279	3,281	3,539	3,690	4,184	4,304	4,874
Other types of support	7,214	7,002	7,401	7,992	8,845	9,988	12,495	14,567
Agricultural sciences:								
Total, all types	9,093	9,120	8,844	8,640	8,474	8,634	8,661	8,649
Fellowships	511	446	423	425	428	423	421	467
Traineeships	116	124	120	113	98	74	68	65
Research assistantships	5,323	5,282	5,083	4,997	4,870	5,012	5,070	5,216
Teaching assistantships	869	922	925	921	984	1,127	1,139	1,108
Other types of support	2,274	2,346	2,293	2,184	2,094	1,998	1,963	1,793
Biological sciences:								
Total, all types	46,076	46,291	45,727	44,968	45,135	45,178	45,305	46,676
Fellowships	5,432	5,276	5,152	5,389	5,594	5,769	5,750	6,161
Traineeships	5,198	5,275	5,327	5,017	5,193	5,259	5,168	4,923
Research assistantships	19,117	18,956	18,371	18,222	17,965	18,087	18,410	19,146
Teaching assistantships	8,880	8,819	8,865	8,647	8,638	8,218	8,152	8,260
Other types of support	7,449	7,965	8,012	7,693	7,745	7,845	7,825	8,186
Psychology:								
Total, all types	28,439	28,336	28,557	28,836	28,701	28,461	28,338	28,471
Fellowships	1,806	1,790	1,905	2,064	2,264	2,366	2,297	2,202
Traineeships	981	1,048	1,103	994	1,020	937	1,148	1,245
Research assistantships	4,187	4,157	4,204	4,191	4,206	4,223	4,219	4,445
Teaching assistantships	5,682	5,748	5,791	5,818	5,600	5,621	5,427	5,323
Other types of support	15,783	15,593	15,554	15,769	15,611	15,314	15,247	15,256

See explanatory information, if any, and SOURCE at end of table.

Table 39. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary mechanism of support: 1994-2001

Page 2 of 2

Field and primary mechanism of support	1994	1995	1996	1997	1998	1999	2000	2001
Social sciences:								
Total, all types	52,601	52,395	53,125	51,648	49,929	49,473	48,816	50,792
Fellowships	7,296	7,427	7,595	7,386	7,271	7,250	7,512	8,150
Traineeships	1,624	1,727	1,635	1,498	1,538	1,515	1,335	1,169
Research assistantships	6,986	6,791	6,695	6,354	6,585	6,729	6,895	7,492
Teaching assistantships	11,451	11,593	11,842	11,768	11,796	11,780	11,903	12,213
Other types of support	25,244	24,857	25,358	24,642	22,739	22,199	21,171	21,768
Engineering, total:								
Total, all types	69,326	65,650	63,922	63,880	63,704	66,004	70,878	75,703
Fellowships	5,858	5,857	5,559	5,688	5,515	6,030	6,324	6,407
Traineeships	913	999	863	875	876	767	730	712
Research assistantships	27,737	26,776	26,234	26,636	27,208	28,326	30,535	32,058
Teaching assistantships	10,495	9,949	9,814	9,951	9,952	10,500	10,874	11,616
Other types of support	24,323	22,069	21,452	20,730	20,153	20,381	22,415	24,910
Chemical engineering:								
Total, all types	6,058	5,917	5,865	5,750	5,597	5,554	5,843	5,796
Fellowships	680	764	745	819	715	836	796	758
Traineeships	98	105	94	94	97	65	85	53
Research assistantships	3,275	3,105	3,051	2,970	2,900	2,936	3,091	3,147
Teaching assistantships	938	908	919	916	893	951	940	843
Other types of support	1,067	1,035	1,056	951	992	766	931	995
Civil engineering:								
Total, all types	12,155	11,762	11,368	11,038	10,800	10,900	11,536	11,836
Fellowships	860	884	862	859	816	865	923	1,030
Traineeships	187	187	174	187	189	196	117	156
Research assistantships	4,187	4,180	4,086	3,953	3,844	4,058	4,628	4,506
Teaching assistantships	1,859	1,806	1,758	1,750	1,746	1,764	1,845	1,863
Other types of support	5,062	4,705	4,488	4,289	4,205	4,017	4,023	4,281
Electrical engineering:								
Total, all types	18,638	17,481	17,323	18,209	18,804	19,503	22,044	24,290
Fellowships	1,455	1,413	1,376	1,370	1,313	1,360	1,338	1,280
Traineeships	145	155	152	122	133	76	87	61
Research assistantships	6,727	6,626	6,837	7,418	7,651	8,308	9,096	9,554
Teaching assistantships	3,128	3,029	3,111	3,262	3,290	3,301	3,565	3,913
Other types of support	7,183	6,258	5,847	6,037	6,417	6,458	7,958	9,482
Industrial engineering:								
Total, all types	5,716	5,123	4,976	4,955	4,746	5,341	5,967	6,372
Fellowships	273	301	232	236	251	257	328	427
Traineeships	32	37	14	21	24	21	18	35
Research assistantships	1,304	1,281	1,252	1,241	1,367	1,452	1,656	1,738
Teaching assistantships	913	817	770	768	772	891	954	1,028
Other types of support	3,194	2,687	2,708	2,689	2,332	2,720	3,011	3,144
Mechanical engineering:								
Total, all types	11,621	10,914	10,414	10,174	9,900	10,092	10,776	11,253
Fellowships	917	921	888	830	894	872	1,017	948
Traineeships	187	187	165	215	180	142	103	115
Research assistantships	4,614	4,346	4,195	4,270	4,453	4,559	4,844	5,076
Teaching assistantships	2,019	1,882	1,804	1,832	1,748	1,909	1,943	2,111
Other types of support	3,884	3,578	3,362	3,027	2,625	2,610	2,869	3,003
Other engineering:								
Total, all types	15,138	14,453	13,976	13,754	13,857	14,614	14,712	16,156
Fellowships	1,673	1,574	1,456	1,574	1,526	1,840	1,922	1,964
Traineeships	264	328	264	236	253	267	320	292
Research assistantships	7,630	7,238	6,813	6,784	6,993	7,013	7,220	8,037
Teaching assistantships	1,638	1,507	1,452	1,423	1,503	1,684	1,627	1,858
Other types of support	3,933	3,806	3,991	3,737	3,582	3,810	3,623	4,005
Total, health fields:								
Total, all types	33,742	36,159	38,043	39,740	41,199	43,385	43,137	44,048
Fellowships	2,088	2,142	2,428	2,397	2,435	2,640	2,831	2,497
Traineeships	4,777	4,791	4,543	4,206	4,639	4,758	4,175	4,561
Research assistantships	4,139	4,258	4,120	4,589	4,767	5,019	5,527	5,862
Teaching assistantships	2,667	2,727	2,895	2,992	3,013	2,946	2,934	3,163
Other types of support	20,071	22,241	24,057	25,556	26,345	28,022	27,670	27,965

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 40. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field and primary mechanism of support: 2001

Page 1 of 2

Field	Total	Fellowships	Trainee-ships	Research assistantships	Teaching assistantships	Other types of support
Total, all surveyed fields	330,043	31,671	13,566	97,699	66,036	121,071
Total, science and engineering fields	285,995	29,174	9,005	91,837	62,873	93,106
Sciences, total	210,292	22,767	8,293	59,779	51,257	68,196
Physical sciences, total	26,721	2,357	456	11,719	10,364	1,825
Astronomy	860	148	34	431	213	34
Chemistry	15,708	1,388	263	6,699	6,442	916
Physics	9,936	818	159	4,503	3,697	759
Physical sciences, n.e.c.	217	3	0	86	12	116
Earth, atmos., & ocean sci., total	10,014	1,063	90	4,042	2,450	2,369
Atmospheric sciences	811	52	0	499	151	109
Geosciences	5,078	619	36	1,784	1,788	851
Oceanography	2,003	223	4	1,123	196	457
Earth, atmos., & ocean sci., n.e.c.	2,122	169	50	636	315	952
Mathematical sciences, total	11,992	1,387	105	1,403	6,665	2,432
Mathematics & applied mathematics	9,563	1,189	83	939	5,519	1,833
Statistics	2,429	198	22	464	1,146	599
Computer sciences	26,977	980	240	6,316	4,874	14,567
Agricultural sciences	8,649	467	65	5,216	1,108	1,793
Biological sciences, total	46,676	6,161	4,923	19,146	8,260	8,186
Anatomy	806	86	97	319	121	183
Biochemistry	4,617	667	449	2,513	531	457
Biology	8,603	1,093	402	2,218	3,517	1,373
Biometry/epidemiology	2,665	286	420	633	157	1,169
Biophysics	853	139	193	362	59	100
Botany	1,902	151	36	1,016	463	236
Cell biology	4,330	731	797	1,986	428	388
Ecology	1,353	248	15	514	403	173
Entomology/parasitology	989	76	9	638	165	101
Genetics	1,678	311	267	821	85	194
Microbio., immunology, & virology	4,495	658	664	2,221	458	494
Nutrition	3,091	187	95	1,399	430	980
Pathology	1,360	185	127	569	66	413
Pharmacology	2,633	420	522	1,201	144	346
Physiology	1,811	242	227	662	161	519
Zoology	1,266	114	17	438	606	91
Biosciences, n.e.c.	4,224	567	586	1,636	466	969
Psychology, total	28,471	2,202	1,245	4,445	5,323	15,256
Psychology, general	8,880	892	369	1,662	2,510	3,447
Clinical psychology	9,044	536	545	1,026	768	6,169
Psychology, n.e.c.	10,547	774	331	1,757	2,045	5,640
Social sciences, total	50,792	8,150	1,169	7,492	12,213	21,768
Agricultural economics	1,865	91	9	1,005	231	529
Anthropology (cultural & social)	5,450	1,384	50	518	1,374	2,124
Economics (except agricultural)	8,890	1,632	134	1,186	2,875	3,063
Geography	2,738	194	32	661	908	943
History and philosophy of science	372	118	6	27	116	105
Linguistics	2,088	361	51	211	700	765
Political science	15,099	2,603	544	1,644	2,647	7,661
Sociology	5,832	984	161	890	2,106	1,691
Sociology/anthropology	560	31	6	78	217	228
Social sciences, n.e.c.	7,898	752	176	1,272	1,039	4,659
Engineering, total	75,703	6,407	712	32,058	11,616	24,910
Aerospace engineering	2,833	292	31	1,350	356	804
Agricultural engineering	758	68	9	459	75	147
Biomedical engineering	3,090	539	169	1,411	313	658
Chemical engineering	5,796	758	53	3,147	843	995
Civil engineering	11,836	1,030	156	4,506	1,863	4,281
Electrical engineering	24,290	1,280	61	9,554	3,913	9,482
Engineering science	1,207	166	10	575	165	291
Industrial/manufacturing eng.	6,372	427	35	1,738	1,028	3,144
Mechanical engineering	11,253	948	115	5,076	2,111	3,003
Metallurgical/materials eng.	3,942	449	16	2,545	407	525
Mining engineering	185	27	1	66	36	55
Nuclear engineering	651	90	7	403	49	102
Petroleum engineering	512	68	0	199	60	185
Engineering, n.e.c.	2,978	265	49	1,029	397	1,238

See explanatory information, if any, and SOURCE at end of table.

Table 40. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field and primary mechanism of support: 2001

Page 2 of 2

Field	Total	Fellowships	Trainee-ships	Research assistantships	Teaching assistantships	Other types of support
Total, health fields	44,048	2,497	4,561	5,862	3,163	27,965
Medical fields, total	11,394	1,128	1,550	2,179	341	6,196
Anesthesiology	514	0	166	0	0	348
Cardiology	50	0	17	24	0	9
Oncology/cancer research	246	52	73	104	1	16
Endocrinology	51	9	2	28	3	9
Gastroenterology	7	7	0	0	0	0
Hematology	6	6	0	0	0	0
Neurology	2,072	471	507	800	119	175
Obstetrics and gynecology	18	10	0	0	0	8
Ophthalmology	33	2	20	1	9	1
Otorhinolaryngology	4	0	0	3	0	1
Pediatrics	316	29	25	39	2	221
Preventive medicine/community health	6,437	404	456	859	170	4,548
Psychiatry	63	4	2	24	5	28
Pulmonary disease	8	2	1	0	0	5
Radiology	167	6	6	78	8	69
Surgery	97	6	20	24	1	46
Clinical medicine, n.e.c.	1,305	120	255	195	23	712
Other health fields, total	32,654	1,369	3,011	3,683	2,822	21,769
Dental sciences	1,322	83	81	78	223	857
Nursing	7,783	382	1,936	408	369	4,688
Pharmaceutical sciences	2,833	182	252	954	717	728
Speech pathology/audiology	7,732	272	322	792	778	5,568
Veterinary sciences	1,225	54	25	618	101	427
Health related, n.e.c.	11,759	396	395	833	634	9,501

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 41. Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support: 1994-2001

Page 1 of 2

Primary mechanism and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Total, all types:								
Total, all sources	274,537	268,579	265,610	262,236	260,737	265,117	272,561	285,995
Federal, total	59,761	58,525	57,063	56,010	55,165	56,576	58,636	59,402
Dept. of Defense	8,949	8,830	8,312	8,555	7,893	7,582	7,674	7,596
Dept. of Energy ¹	na	na	na	na	na	2,701	2,970	3,093
Dept. of HHS, total	17,024	17,012	16,798	16,688	16,622	17,110	17,590	17,900
NIH	15,833	15,588	15,392	15,245	15,218	15,884	16,245	16,378
Other HHS	1,191	1,424	1,406	1,443	1,404	1,226	1,345	1,522
NASA ²	na	na	2,212	2,481	2,552	2,460	2,710	2,748
NSF	13,658	13,450	13,258	13,206	13,277	13,649	14,427	15,236
USDA	3,295	3,150	2,902	2,561	2,366	2,533	2,555	2,690
All other Federal	16,835	16,083	13,581	12,519	12,455	10,541	10,710	10,139
Institutional support	116,002	115,592	114,266	114,469	114,123	117,267	117,432	124,701
Other outside support, total	24,946	23,502	22,866	22,668	23,776	23,412	24,887	25,356
All other U.S.	19,748	18,549	18,112	18,340	19,977	19,941	21,434	21,964
Foreign	5,198	4,953	4,754	4,328	3,799	3,471	3,453	3,392
Self-support	73,828	70,960	71,415	69,089	67,673	67,862	71,606	76,536
Fellowships:								
Total, all sources	26,244	26,166	25,818	25,941	26,144	26,932	27,993	29,174
Federal, total	6,246	6,225	6,297	6,141	6,250	6,472	6,558	6,487
Dept. of Defense	523	469	504	507	535	484	541	445
Dept. of Energy ¹	na	na	na	na	na	97	152	118
Dept. of HHS, total	1,038	1,154	1,128	1,215	1,271	1,326	1,146	1,332
NIH	907	953	949	989	1,043	1,156	989	1,157
Other HHS	131	201	179	226	228	170	157	175
NASA ²	na	na	398	349	369	351	336	308
NSF	2,263	2,305	2,439	2,299	2,330	2,405	2,532	2,549
USDA	106	116	101	123	113	120	120	120
All other Federal	2,316	2,181	1,727	1,648	1,632	1,689	1,731	1,615
Institutional support	13,619	13,988	14,057	14,886	14,947	15,722	16,682	17,953
Other outside support, total	6,379	5,953	5,464	4,914	4,947	4,738	4,753	4,734
All other U.S.	3,977	3,731	3,329	3,049	3,223	3,228	3,396	3,334
Foreign	2,402	2,222	2,135	1,865	1,724	1,510	1,357	1,400
Self-support	N/A							
Traineeships:								
Total, all sources	10,109	10,396	10,158	9,475	9,680	9,344	9,374	9,005
Federal, total	5,773	5,596	5,484	5,108	5,378	5,359	5,652	5,414
Dept. of Defense	109	104	124	108	64	51	57	36
Dept. of Energy ¹	na	na	na	na	na	22	10	2
Dept. of HHS, total	4,465	4,335	4,250	3,957	4,214	4,335	4,402	4,202
NIH	4,178	3,978	3,984	3,773	4,036	4,141	4,128	3,982
Other HHS	287	357	266	184	178	194	274	220
NASA ²	na	na	65	76	57	51	46	50
NSF	256	333	428	379	408	344	322	335
USDA	36	17	24	23	14	25	17	16
All other Federal	907	807	593	565	621	531	798	773
Institutional support	3,470	4,121	4,118	3,753	3,627	3,356	3,212	3,182
Other outside support, total	866	679	556	614	675	629	510	409
All other U.S.	646	484	374	454	531	529	365	298
Foreign	220	195	182	160	144	100	145	111
Self-support	N/A							
Research assistantships:								
Total, all sources	85,459	83,298	81,226	80,906	81,040	83,590	86,496	91,837
Federal, total	43,367	42,524	41,394	41,031	39,627	40,583	42,166	43,530
Dept. of Defense	6,120	6,174	5,885	6,230	5,740	5,598	5,696	5,789
Dept. of Energy ¹	na	na	na	na	na	2,518	2,711	2,882
Dept. of HHS, total	11,174	11,124	10,981	11,038	10,531	10,731	11,285	11,653
NIH	10,459	10,328	10,106	10,090	9,599	9,987	10,431	10,597
Other HHS	715	796	875	948	932	744	854	1,056
NASA ²	na	na	1,706	2,003	2,069	2,014	2,266	2,308
NSF	10,954	10,521	10,169	10,356	10,330	10,667	11,278	12,024
USDA	3,033	2,918	2,677	2,343	2,152	2,271	2,302	2,476
All other Federal	12,086	11,787	9,976	9,061	8,805	6,784	6,628	6,398
Institutional support	29,084	28,573	27,628	27,333	28,228	29,712	29,921	32,785
Other outside support, total	13,008	12,201	12,204	12,542	13,185	13,295	14,409	15,522
All other U.S.	12,245	11,465	11,478	11,802	12,557	12,700	13,782	14,893
Foreign	763	736	726	740	628	595	627	629
Self-support	N/A							

See explanatory information, if any, and SOURCE at end of table.

Table 41. Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support: 1994-2001

Page 2 of 2

Primary mechanism and primary source of support	1994	1995	1996	1997	1998	1999	2000	2001
Teaching assistantships:								
Total, all sources	62,006	61,156	60,803	60,354	60,091	61,147	61,354	62,873
Federal, total	627	624	720	724	914	847	1,243	961
Dept. of Defense	N/A							
Dept. of Energy ¹	na	na	na	na	na	16	34	27
Dept. of HHS, total	130	111	180	156	228	202	277	242
NIH	121	104	176	126	221	196	261	211
Other HHS	9	7	4	30	7	6	16	31
NASA ²	na	na	2	21	23	9	11	33
NSF	98	151	117	79	130	119	134	201
USDA	43	37	41	30	36	60	68	46
All other Federal	356	325	380	438	497	441	719	412
Institutional support	60,810	60,014	59,480	59,090	58,614	59,637	59,162	60,974
Other outside support, total	569	518	603	540	563	663	949	938
All other U.S.	569	518	603	540	563	663	949	938
Foreign	N/A							
Self-support	N/A							
Other types of support:								
Total, all sources	90,719	87,563	87,605	85,560	83,782	84,104	87,344	93,106
Federal, total	3,748	3,556	3,168	3,006	2,996	3,315	3,017	3,010
Dept. of Defense	2,197	2,083	1,799	1,710	1,554	1,449	1,380	1,326
Dept. of Energy ¹	na	na	na	na	na	48	63	64
Dept. of HHS, total	217	288	259	322	378	516	480	471
NIH	168	225	177	267	319	404	436	431
Other HHS	49	63	82	55	59	112	44	40
NASA ²	na	na	41	32	34	35	51	49
NSF	87	140	105	93	79	114	161	127
USDA	77	62	59	42	51	57	48	32
All other Federal	1,170	983	905	807	900	1,096	834	941
Institutional support	9,019	8,896	8,983	9,407	8,707	8,840	8,455	9,807
Other outside support, total	4,124	4,151	4,039	4,058	4,406	4,087	4,266	3,753
All other U.S.	2,311	2,351	2,328	2,495	3,103	2,821	2,942	2,501
Foreign	1,813	1,800	1,711	1,563	1,303	1,266	1,324	1,252
Self-support	73,828	70,960	71,415	69,089	67,673	67,862	71,606	76,536

¹ Data for Department of Energy were not collected separately prior to 1999. Students supported by the Department of Energy prior to 1999 were included under "All other Federal" support.

² Data for NASA were not collected separately prior to 1996. Students supported by NASA prior to 1996 were included under "All other Federal" support.

KEY:
 HHS = Department of Health & Human Services
 NIH = National Institutes of Health
 NASA = National Aeronautics & Space Administration
 NSF = National Science Foundation
 USDA = United States Department of Agriculture
 na = Not available
 N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 42. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by sex, primary source of support, and field: 2001

Page 1 of 2

Primary source of support	Total, all surveyed fields	Sciences								
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences
Total										
Total, all sources	330,043	210,292	26,721	10,014	11,992	26,977	8,649	46,676	28,471	50,792
Federal, total	67,589	42,442	9,258	2,878	1,373	4,162	1,917	16,561	3,054	3,239
Dept. of Defense	7,872	3,206	855	257	211	1,247	47	338	135	116
Dept. of Energy	3,104	1,806	1,256	137	40	120	27	165	1	60
Dept. of HHS, total	23,716	16,625	2,087	60	108	172	40	12,220	1,566	372
NIH	19,623	15,257	1,832	37	89	101	29	11,547	1,345	277
Other HHS	4,093	1,368	255	23	19	71	11	673	221	95
NASA	2,770	1,408	490	456	23	165	56	73	21	124
NSF	15,365	9,832	3,337	1,119	757	1,856	128	1,616	280	739
USDA	2,734	2,430	42	65	20	25	1,047	840	13	378
All other Federal	12,028	7,135	1,191	784	214	577	572	1,309	1,038	1,450
Institutional support	134,707	97,275	14,206	4,455	8,341	8,331	3,760	20,512	11,614	26,056
Other non-Federal, total	27,739	14,390	1,951	874	491	1,783	1,521	3,629	1,168	2,973
All other U.S.	23,980	12,062	1,824	689	282	1,548	1,340	3,260	1,126	1,993
Foreign	3,759	2,328	127	185	209	235	181	369	42	980
Self-support	100,008	56,185	1,306	1,807	1,787	12,701	1,451	5,974	12,635	18,524
Men										
Total, all sources	184,570	112,186	18,810	5,680	7,826	19,785	4,815	22,210	8,032	25,028
Federal, total	41,185	24,841	6,743	1,685	995	3,390	1,092	8,263	1,037	1,636
Dept. of Defense	6,389	2,475	681	184	194	1,064	28	168	68	88
Dept. of Energy	2,429	1,352	1,001	82	27	96	17	104	1	24
Dept. of HHS, total	11,182	8,315	1,359	33	58	138	22	6,065	506	134
NIH	9,821	7,628	1,190	23	50	78	15	5,719	452	101
Other HHS	1,361	687	169	10	8	60	7	346	54	33
NASA	2,055	949	369	260	19	125	39	50	9	78
NSF	10,763	6,502	2,431	641	562	1,482	63	825	109	389
USDA	1,506	1,293	30	43	16	18	594	389	1	202
All other Federal	6,861	3,955	872	442	119	467	329	662	343	721
Institutional support	76,353	51,824	9,721	2,447	5,432	6,192	1,979	9,569	3,504	12,980
Other non-Federal, total	18,388	8,642	1,437	568	331	1,418	944	1,901	360	1,683
All other U.S.	15,729	7,055	1,332	438	187	1,225	811	1,690	348	1,024
Foreign	2,659	1,587	105	130	144	193	133	211	12	659
Self-support	48,644	26,879	909	980	1,068	8,785	800	2,477	3,131	8,729
Women										
Total, all sources	145,473	98,106	7,911	4,334	4,166	7,192	3,834	24,466	20,439	25,764
Federal, total	26,404	17,601	2,515	1,193	378	772	825	8,298	2,017	1,603
Dept. of Defense	1,483	731	174	73	17	183	19	170	67	28
Dept. of Energy	675	454	255	55	13	24	10	61	0	36
Dept. of HHS, total	12,534	8,310	728	27	50	34	18	6,155	1,060	238
NIH	9,802	7,629	642	14	39	23	14	5,828	893	176
Other HHS	2,732	681	86	13	11	11	4	327	167	62
NASA	715	459	121	196	4	40	17	23	12	46
NSF	4,602	3,330	906	478	195	374	65	791	171	350
USDA	1,228	1,137	12	22	4	7	453	451	12	176
All other Federal	5,167	3,180	319	342	95	110	243	647	695	729
Institutional support	58,354	45,451	4,485	2,008	2,909	2,139	1,781	10,943	8,110	13,076
Other non-Federal, total	9,351	5,748	514	306	160	365	577	1,728	808	1,290
All other U.S.	8,251	5,007	492	251	95	323	529	1,570	778	969
Foreign	1,100	741	22	55	65	42	48	158	30	321
Self-support	51,364	29,306	397	827	719	3,916	651	3,497	9,504	9,795

See explanatory information, if any, and SOURCE at end of table.

Table 42. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by sex, primary source of support, and field: 2001

Page 2 of 2

Primary source of support	Engineering									Health fields
	Engi-neering, total	Aerospace engi-neering	Chemical engi-neering	Civil engi-neering	Electri-cal engi-neering	Industri-al engi-neering	Mechani-cal engi-neering	Metallur-gical & materials engi-neering	Other engi-neering	
Total										
Total, all sources	75,703	2,833	5,796	11,836	24,290	6,372	11,253	3,942	9,381	44,048
Federal, total	16,960	1,003	1,680	1,911	4,930	797	2,743	1,467	2,429	8,187
Dept. of Defense	4,390	411	140	175	1,965	240	674	353	432	276
Dept. of Energy	1,287	34	257	82	138	46	214	222	294	11
Dept. of HHS, total	1,275	5	179	27	145	40	159	29	691	5,816
NIH	1,121	5	136	26	106	29	147	23	649	3,245
Other HHS	154	0	43	1	39	11	12	6	42	2,571
NASA	1,340	367	108	78	324	29	280	66	88	22
NSF	5,404	105	709	593	1,630	272	999	610	486	129
USDA	260	0	35	38	13	8	11	5	150	44
All other Federal	3,004	81	252	918	715	162	406	182	288	1,889
Institutional support	27,426	865	2,229	4,933	7,848	2,393	4,432	1,244	3,482	10,006
Other non-Federal, total	10,966	361	1,095	1,506	3,388	725	1,692	806	1,393	2,383
All other U.S.	9,902	317	984	1,330	3,141	605	1,546	756	1,223	2,016
Foreign	1,064	44	111	176	247	120	146	50	170	367
Self-support	20,351	604	792	3,486	8,124	2,457	2,386	425	2,077	23,472
Men										
Total, all sources	59,999	2,449	4,267	8,496	20,162	4,981	9,837	2,964	6,843	12,385
Federal, total	13,613	891	1,205	1,385	4,181	629	2,360	1,141	1,821	2,731
Dept. of Defense	3,786	378	112	134	1,693	206	603	286	374	128
Dept. of Energy	1,070	30	197	67	125	37	185	180	249	7
Dept. of HHS, total	907	4	123	17	112	28	129	16	478	1,960
NIH	798	4	92	17	85	19	122	12	447	1,395
Other HHS	109	0	31	0	27	9	7	4	31	565
NASA	1,090	316	71	61	278	20	230	43	71	16
NSF	4,201	90	479	426	1,350	200	853	468	335	60
USDA	193	0	27	27	9	8	10	4	108	20
All other Federal	2,366	73	196	653	614	130	350	144	206	540
Institutional support	21,428	731	1,654	3,469	6,482	1,870	3,815	902	2,505	3,101
Other non-Federal, total	8,790	306	827	1,098	2,868	564	1,502	608	1,017	956
All other U.S.	7,893	265	739	959	2,652	469	1,367	567	875	781
Foreign	897	41	88	139	216	95	135	41	142	175
Self-support	16,168	521	581	2,544	6,631	1,918	2,160	313	1,500	5,597
Women										
Total, all sources	15,704	384	1,529	3,340	4,128	1,391	1,416	978	2,538	31,663
Federal, total	3,347	112	475	526	749	168	383	326	608	5,456
Dept. of Defense	604	33	28	41	272	34	71	67	58	148
Dept. of Energy	217	4	60	15	13	9	29	42	45	4
Dept. of HHS, total	368	1	56	10	33	12	30	13	213	3,856
NIH	323	1	44	9	21	10	25	11	202	1,850
Other HHS	45	0	12	1	12	2	5	2	11	2,006
NASA	250	51	37	17	46	9	50	23	17	6
NSF	1,203	15	230	167	280	72	146	142	151	69
USDA	67	0	8	11	4	0	1	1	42	24
All other Federal	638	8	56	265	101	32	56	38	82	1,349
Institutional support	5,998	134	575	1,464	1,366	523	617	342	977	6,905
Other non-Federal, total	2,176	55	268	408	520	161	190	198	376	1,427
All other U.S.	2,009	52	245	371	489	136	179	189	348	1,235
Foreign	167	3	23	37	31	25	11	9	28	192
Self-support	4,183	83	211	942	1,493	539	226	112	577	17,875

KEY: HHS = Department of Health & Human Services
 NIH = National Institutes of Health
 NASA = National Aeronautics & Space Administration
 NSF = National Science Foundation
 USDA = United States Department of Agriculture

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 43. Full-time graduate science, engineering, and health students with U.S. citizenship or permanent resident status in doctorate-granting institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	221,135	220,509	219,047	215,982	213,845	213,797	210,009	214,156
Total, science and engineering fields	190,935	187,911	184,911	180,103	176,560	174,657	171,276	174,993
Sciences, total	151,359	150,805	149,677	146,446	144,317	143,473	140,295	143,411
Physical sciences, total	18,610	17,916	17,196	16,369	16,098	15,913	15,380	15,557
Astronomy	694	646	642	584	581	574	564	589
Chemistry	10,872	10,637	10,460	10,100	9,963	10,037	9,754	9,795
Physics	6,930	6,501	5,976	5,591	5,470	5,187	4,940	5,045
Physical sciences, n.e.c.	114	132	118	94	84	115	122	128
Earth, atmos., & ocean sci., total	8,077	8,167	7,911	7,769	7,855	7,853	7,729	7,597
Atmospheric sciences	731	708	709	684	622	534	559	556
Geosciences	4,243	4,224	4,115	4,074	3,960	3,993	3,951	3,867
Oceanography	1,602	1,605	1,531	1,455	1,523	1,613	1,629	1,527
Earth, atmos., & ocean sci., n.e.c.	1,501	1,630	1,556	1,556	1,750	1,713	1,590	1,647
Mathematical sciences, total	8,282	7,762	7,376	6,822	6,638	6,138	5,945	6,283
Mathematics & applied mathematics	6,983	6,456	6,071	5,676	5,518	5,156	4,975	5,316
Statistics	1,299	1,306	1,305	1,146	1,120	982	970	967
Computer sciences	8,012	7,855	7,557	7,561	7,902	8,564	8,300	9,148
Agricultural sciences	6,335	6,415	6,329	6,320	6,276	6,509	6,624	6,501
Biological sciences, total	34,460	35,301	35,377	34,883	34,821	35,075	34,577	35,408
Anatomy	707	672	746	740	684	656	677	604
Biochemistry	3,503	3,594	3,513	3,417	3,451	3,393	3,151	3,108
Biology	7,077	6,925	6,954	7,153	6,980	6,878	6,780	6,875
Biometry/epidemiology	1,523	1,593	1,694	1,569	1,977	1,954	1,852	1,926
Biophysics	562	602	632	558	545	530	515	598
Botany	1,607	1,507	1,501	1,439	1,368	1,354	1,322	1,326
Cell biology	2,798	2,989	2,995	2,999	3,061	3,291	3,298	3,315
Ecology	1,026	1,122	1,096	1,026	1,046	1,064	1,052	1,181
Entomology/parasitology	743	709	742	736	734	693	714	742
Genetics	1,205	1,232	1,242	1,235	1,212	1,257	1,231	1,282
Microbio., immunology, & virology	3,421	3,512	3,475	3,427	3,466	3,571	3,602	3,527
Nutrition	1,979	2,160	2,289	2,180	2,075	2,103	2,060	2,099
Pathology	1,027	1,032	1,022	1,139	1,049	1,068	1,000	1,077
Pharmacology	2,050	2,007	1,950	1,920	1,991	1,999	1,982	2,016
Physiology	1,647	1,867	1,797	1,701	1,573	1,443	1,426	1,396
Zoology	1,386	1,459	1,363	1,276	1,204	1,190	1,086	1,061
Biosciences, n.e.c.	2,199	2,319	2,366	2,368	2,405	2,631	2,829	3,275
Psychology, total	26,808	26,843	27,092	27,336	27,088	26,856	26,623	26,601
Psychology, general	9,099	8,845	8,200	8,689	8,640	8,244	8,326	8,151
Clinical psychology	7,656	7,926	8,437	8,730	8,756	8,842	8,610	8,714
Psychology, n.e.c.	10,053	10,072	10,455	9,917	9,692	9,770	9,687	9,736
Social sciences, total	40,775	40,546	40,839	39,386	37,639	36,565	35,117	36,316
Agricultural economics	1,083	1,056	962	881	884	878	874	917
Anthropology (cultural & social)	5,070	5,101	5,296	5,055	4,940	4,918	4,779	4,804
Economics (except agricultural)	5,188	4,866	4,500	3,916	3,780	3,348	3,282	3,329
Geography	2,414	2,314	2,344	2,287	2,190	2,086	1,945	2,131
History and philosophy of science	284	296	299	313	326	357	307	306
Linguistics	1,533	1,517	1,577	1,503	1,357	1,278	1,190	1,223
Political science	13,865	13,438	13,218	12,712	11,999	11,596	11,289	11,676
Sociology	5,268	5,378	5,263	5,250	5,028	4,885	4,748	4,779
Sociology/anthropology	561	534	511	543	506	444	448	489
Social sciences, n.e.c.	5,509	6,046	6,869	6,926	6,629	6,775	6,255	6,662
Engineering, total	39,576	37,106	35,234	33,657	32,243	31,184	30,981	31,582
Aerospace engineering	1,834	1,592	1,402	1,312	1,257	1,270	1,353	1,353
Agricultural engineering	438	414	393	397	398	398	373	392
Biomedical engineering	1,534	1,623	1,657	1,767	1,821	1,915	1,972	2,060
Chemical engineering	3,320	3,271	3,352	3,241	3,037	2,809	2,800	2,690
Civil engineering	7,470	7,241	7,139	6,765	6,584	6,245	6,205	6,158
Electrical engineering	9,951	8,949	8,345	8,126	7,698	7,117	7,204	7,784
Engineering science	829	823	628	618	626	561	513	555
Industrial/manufacturing eng.	3,054	2,714	2,411	2,329	2,153	2,351	2,336	2,073
Mechanical engineering	6,927	6,418	5,868	5,417	5,117	4,911	4,820	4,863
Metallurgical/materials eng.	2,315	2,147	1,956	1,885	1,856	1,668	1,614	1,742
Mining engineering	127	115	149	154	161	162	87	93
Nuclear engineering	618	536	487	434	389	343	348	314
Petroleum engineering	151	133	121	76	59	75	184	172
Engineering, n.e.c.	1,008	1,130	1,326	1,136	1,087	1,359	1,172	1,333

See explanatory information, if any, and SOURCE at end of table.

Table 43. Full-time graduate science, engineering, and health students with U.S. citizenship or permanent resident status in doctorate-granting institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	30,200	32,598	34,136	35,879	37,285	39,140	38,733	39,163
Medical fields, total	7,548	8,224	8,150	8,447	9,262	9,694	9,364	9,669
Anesthesiology	344	369	493	481	486	454	472	513
Cardiology	7	9	7	9	23	45	39	34
Oncology/cancer research	141	139	126	159	175	196	182	199
Endocrinology	50	25	24	22	41	49	42	33
Gastroenterology	0	0	0	0	6	7	13	6
Hematology	2	1	3	3	1	3	2	6
Neurology	1,196	1,270	1,332	1,437	1,535	1,592	1,607	1,715
Obstetrics and gynecology	3	5	1	18	10	8	12	18
Ophthalmology	12	10	14	15	6	15	25	24
Otorhinolaryngology	2	0	0	2	0	1	8	4
Pediatrics	215	184	205	251	237	253	319	279
Preventive medicine/community health	4,611	5,122	4,898	4,896	5,657	5,917	5,437	5,358
Psychiatry	88	93	63	79	39	47	79	62
Pulmonary disease	0	0	0	0	0	6	7	8
Radiology	187	175	150	160	132	139	119	134
Surgery	101	154	153	152	104	106	119	90
Clinical medicine, n.e.c.	589	668	681	763	810	856	882	1,186
Other health fields, total	22,652	24,374	25,986	27,432	28,023	29,446	29,369	29,494
Dental sciences	854	890	869	961	967	954	965	1,028
Nursing	6,432	6,884	6,916	7,207	7,023	7,714	7,322	7,495
Pharmaceutical sciences	1,312	1,188	1,166	1,162	1,155	1,474	1,488	1,611
Speech pathology/audiology	6,129	6,231	6,633	6,974	7,090	7,357	7,380	7,397
Veterinary sciences	505	507	488	735	777	749	847	899
Health related, n.e.c.	7,420	8,674	9,914	10,393	11,011	11,198	11,367	11,064

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 44. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in doctorate-granting institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	87,144	84,229	84,606	85,994	88,091	94,705	105,689	115,887
Total, science and engineering fields	83,602	80,668	80,699	82,133	84,177	90,460	101,285	111,002
Sciences, total	53,852	52,124	52,011	51,910	52,716	55,640	61,388	66,881
Physical sciences, total	10,698	10,270	10,072	9,873	9,664	10,215	10,709	11,164
Astronomy	259	225	212	184	206	234	259	271
Chemistry	5,807	5,670	5,586	5,457	5,339	5,548	5,611	5,913
Physics	4,582	4,333	4,245	4,204	4,082	4,368	4,766	4,891
Physical sciences, n.e.c.	50	42	29	28	37	65	73	89
Earth, atmos., & ocean sci., total	2,808	2,550	2,366	2,197	2,149	2,176	2,373	2,417
Atmospheric sciences	250	248	268	280	232	257	283	255
Geosciences	1,540	1,386	1,292	1,168	1,110	1,100	1,178	1,211
Oceanography	661	578	507	469	482	461	488	476
Earth, atmos., & ocean sci., n.e.c.	357	338	299	280	325	358	424	475
Mathematical sciences, total	5,178	4,963	4,926	4,706	4,486	4,999	5,185	5,709
Mathematics & applied mathematics	4,227	4,012	3,997	3,787	3,586	3,875	3,936	4,247
Statistics	951	951	929	919	900	1,124	1,249	1,462
Computer sciences	7,337	7,304	8,031	8,967	10,002	11,509	14,942	17,829
Agricultural sciences	2,758	2,705	2,515	2,320	2,198	2,125	2,037	2,148
Biological sciences, total	11,616	10,990	10,350	10,085	10,314	10,103	10,728	11,268
Anatomy	215	232	204	202	184	188	207	202
Biochemistry	1,680	1,579	1,442	1,365	1,395	1,385	1,545	1,509
Biology	1,616	1,584	1,575	1,675	1,693	1,604	1,660	1,728
Biometry/epidemiology	533	500	468	436	606	627	689	739
Biophysics	208	198	175	170	162	151	202	255
Botany	738	639	627	610	621	595	566	576
Cell biology	855	807	800	780	794	781	915	1,015
Ecology	161	154	143	131	133	156	158	172
Entomology/parasitology	323	332	285	259	266	278	265	247
Genetics	348	340	363	385	367	363	359	396
Microbio., immunology, & virology	1,232	1,115	1,009	938	904	900	896	968
Nutrition	1,090	1,108	1,006	947	909	882	923	992
Pathology	332	318	317	279	278	283	288	283
Pharmacology	631	532	560	541	559	552	609	617
Physiology	574	509	420	401	417	433	425	415
Zoology	262	220	203	176	160	132	184	205
Biosciences, n.e.c.	818	823	753	790	866	793	837	949
Psychology, total	1,631	1,493	1,465	1,500	1,613	1,605	1,715	1,870
Psychology, general	571	550	500	510	540	553	663	729
Clinical psychology	263	225	234	251	290	299	305	330
Psychology, n.e.c.	797	718	731	739	783	753	747	811
Social sciences, total	11,826	11,849	12,286	12,262	12,290	12,908	13,699	14,476
Agricultural economics	809	892	797	816	786	807	903	948
Anthropology (cultural & social)	670	578	586	592	630	693	677	646
Economics (except agricultural)	4,447	4,516	4,732	4,626	4,507	4,760	5,048	5,561
Geography	379	390	391	427	482	487	526	607
History and philosophy of science	52	44	49	64	59	55	66	66
Linguistics	887	865	856	829	839	829	847	865
Political science	2,499	2,528	2,827	2,719	2,812	3,165	3,329	3,423
Sociology	1,014	892	897	942	911	977	1,050	1,053
Sociology/anthropology	69	73	65	70	87	63	67	71
Social sciences, n.e.c.	1,000	1,071	1,086	1,177	1,177	1,072	1,186	1,236
Engineering, total	29,750	28,544	28,688	30,223	31,461	34,820	39,897	44,121
Aerospace engineering	1,133	1,076	1,143	1,193	1,287	1,353	1,387	1,480
Agricultural engineering	441	445	406	351	358	369	333	366
Biomedical engineering	712	654	624	644	654	793	869	1,030
Chemical engineering	2,738	2,646	2,513	2,509	2,560	2,745	3,043	3,106
Civil engineering	4,685	4,521	4,229	4,273	4,216	4,655	5,331	5,678
Electrical engineering	8,687	8,532	8,978	10,083	11,106	12,386	14,840	16,506
Engineering science	514	418	426	398	485	466	573	652
Industrial/manufacturing eng.	2,662	2,409	2,565	2,626	2,593	2,990	3,631	4,299
Mechanical engineering	4,694	4,496	4,546	4,757	4,783	5,181	5,956	6,390
Metallurgical/materials eng.	1,769	1,717	1,731	1,761	1,828	1,846	1,954	2,200
Mining engineering	151	145	112	106	56	90	95	92
Nuclear engineering	379	347	284	274	273	298	312	337
Petroleum engineering	358	304	314	381	419	448	329	340
Engineering, n.e.c.	827	834	817	867	843	1,200	1,244	1,645

See explanatory information, if any, and SOURCE at end of table.

Table 44. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in doctorate-granting institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	3,542	3,561	3,907	3,861	3,914	4,245	4,404	4,885
Medical fields, total	1,304	1,224	1,309	1,206	1,266	1,442	1,321	1,725
Anesthesiology	2	4	3	2	8	1	1	1
Cardiology	7	10	11	23	13	17	14	16
Oncology/cancer research	59	41	56	34	31	49	41	47
Endocrinology	12	26	22	19	17	17	13	18
Gastroenterology	0	0	0	3	0	0	1	1
Hematology	0	0	0	0	0	0	4	0
Neurology	228	241	267	213	238	261	315	357
Obstetrics and gynecology	1	1	3	0	0	1	1	0
Ophthalmology	6	10	3	5	15	16	16	9
Otorhinolaryngology	0	0	0	0	0	2	0	0
Pediatrics	10	21	15	24	23	23	32	37
Preventive medicine/community health	722	733	811	785	822	932	754	1,079
Psychiatry	3	3	7	1	1	3	1	1
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	69	50	39	38	28	29	30	33
Surgery	6	6	4	5	5	7	9	7
Clinical medicine, n.e.c.	179	78	68	54	65	84	89	119
Other health fields, total	2,238	2,337	2,598	2,655	2,648	2,803	3,083	3,160
Dental sciences	224	260	309	329	317	272	336	294
Nursing	275	284	242	294	299	338	317	288
Pharmaceutical sciences	863	950	1,048	1,057	1,042	1,047	1,192	1,222
Speech pathology/audiology	298	242	266	270	280	294	303	335
Veterinary sciences	219	251	281	280	259	282	307	326
Health related, n.e.c.	359	350	452	425	451	570	628	695

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994-2001

Page 1 of 6

Institutional ranking in 2001	1994	1995	1996	1997	1998	1999	2000	2001
Total, all institutions	387,126	378,676	372,658	365,654	362,284	367,280	370,375	384,072
1 University of Michigan	5,067	4,890	4,966	4,809	4,688	4,930	5,006	5,132
2 University of Minnesota	5,072	4,836	4,713	4,487	4,469	4,609	4,446	5,052
3 Texas A&M Univ	4,788	4,526	4,752	4,620	4,567	4,475	4,919	5,038
4 Stanford University	4,495	4,526	4,510	4,322	4,469	4,711	4,604	4,793
5 University of Colorado	4,009	4,067	4,307	4,222	4,219	4,205	4,533	4,615
6 University of Calif, Berkeley	4,430	4,460	4,453	4,345	4,390	4,461	4,478	4,595
7 Georgia Institute of Technology	3,688	3,540	3,472	3,412	3,572	3,695	4,059	4,531
8 University of Illinois at Urbana-Champaign	4,885	4,920	4,573	4,389	4,301	4,359	4,314	4,509
9 Massachusetts Institute of Technology	4,343	4,206	4,168	4,074	4,145	4,304	4,381	4,481
10 University of Southern California	4,546	4,272	4,126	4,259	4,333	4,492	4,551	4,477
Total, 1st 10 institutions	45,323	44,243	44,040	42,939	43,153	44,241	45,291	47,223
11 University of Wisconsin-Madison	5,294	5,044	4,698	4,507	4,250	4,356	4,335	4,408
12 University of Florida	3,502	3,427	3,400	3,411	3,496	3,780	4,051	4,293
13 Pennsylvania State University	4,223	4,271	4,054	3,951	3,837	3,854	3,775	4,091
14 University of Maryland at College Park	4,008	4,024	4,026	3,880	3,887	3,823	4,086	4,036
15 George Washington University	4,532	4,305	4,150	3,851	3,591	3,702	3,682	4,017
16 University of Washington	3,764	3,757	3,639	3,734	3,821	3,875	3,895	3,950
17 University of Calif, Los Angeles	3,832	3,626	3,551	3,412	3,613	3,731	3,798	3,946
18 Univ of Texas at Austin	4,550	4,199	3,529	3,860	3,794	3,679	3,756	3,873
19 Virginia Polytechnic Inst and State Univ	3,298	3,506	3,572	3,419	3,201	3,190	3,540	3,778
20 Ohio State University	4,420	4,332	4,053	3,764	3,773	3,724	3,797	3,775
Total, 1st 20 institutions	86,746	84,734	82,712	80,728	80,416	81,955	84,006	87,390
21 North Carolina State University	3,342	3,405	3,492	3,553	3,425	3,473	3,540	3,751
22 Cornell University	3,683	3,640	3,495	3,225	3,353	3,460	3,429	3,679
23 Purdue University	3,877	3,746	3,618	3,482	3,450	3,495	3,522	3,642
24 Harvard University	3,231	3,185	3,097	3,024	3,016	3,087	3,211	3,548
25 Arizona State University	3,077	3,080	3,084	3,100	3,109	3,090	3,173	3,413
26 Rutgers the State Univ of New Jersey	3,867	3,802	3,645	3,441	3,295	3,443	3,406	3,382
27 DePaul University	1,460	1,467	1,640	1,743	1,942	2,132	2,772	2,954
28 George Mason University	2,682	3,101	2,922	2,930	2,872	2,855	2,937	2,929
29 New York University	2,668	2,606	2,886	2,791	2,914	2,939	2,750	2,905
30 University of Calif, Davis	2,495	2,425	2,473	2,529	2,515	2,587	2,714	2,873
Total, 1st 30 institutions	117,128	115,191	113,064	110,546	110,307	112,516	115,460	120,466
31 University of Arizona	3,227	3,004	2,898	2,851	2,770	2,812	2,785	2,843
32 Louisiana State University	3,127	3,184	3,133	3,003	2,834	2,917	2,661	2,820
33 Wayne State University	2,910	2,694	2,420	2,385	2,082	2,277	3,729	2,748
34 Michigan State University	3,064	3,005	2,981	2,862	2,826	2,820	2,712	2,721
35 Illinois Institute of Technology	1,913	1,542	2,138	2,058	1,983	2,110	2,154	2,648
36 Indiana University	3,467	3,441	3,258	2,883	2,707	2,678	2,590	2,614
37 Iowa State University	2,799	2,676	2,693	2,608	2,437	2,503	2,608	2,612
38 University of Illinois at Chicago	2,160	2,088	2,097	2,215	2,208	2,282	2,395	2,554
39 University of Massachusetts	2,758	2,757	2,697	2,671	2,700	2,779	2,528	2,539
40 University of Pittsburgh	3,119	2,946	2,761	2,693	2,532	2,569	2,543	2,513
Total, 1st 40 institutions	145,672	142,528	140,140	136,775	135,386	138,263	142,165	147,078
41 SUNY at Buffalo	2,784	2,679	2,527	2,443	2,449	2,619	2,537	2,505
42 University of Kansas	2,551	2,459	2,826	2,718	2,518	2,514	2,552	2,496
43 Boston University	2,484	2,430	2,437	2,407	2,437	2,400	2,489	2,479
44 Carnegie Mellon University	1,628	1,648	1,700	1,763	1,922	2,000	2,100	2,329
45 New Jersey Institute of Technology	1,664	1,711	1,705	1,874	1,917	1,943	2,387	2,272
46 University of Calif, San Diego	1,781	1,814	1,812	1,846	1,826	1,857	1,922	2,200
47 SUNY at Stony Brook	2,135	2,098	1,946	1,885	1,906	2,015	2,005	2,094
48 Univ of Texas at Arlington	1,810	1,609	1,554	1,463	1,407	1,611	1,859	2,077
49 Colorado State University	1,956	1,927	1,751	1,770	1,738	1,755	1,822	2,067
50 Univ of North Carolina at Chapel Hill	2,344	2,282	2,269	2,175	2,166	2,150	1,988	2,047
Total, 1st 50 institutions	166,809	163,185	160,667	157,119	155,672	159,127	163,826	169,644
51 Univ of Pennsylvania	2,360	2,386	2,104	1,929	1,933	1,996	1,910	2,002
52 Columbia Univ in the City of New York	2,411	2,309	2,442	2,385	2,419	2,333	2,182	1,974
53 SUNY at Albany	1,760	1,665	2,038	2,056	2,079	2,098	2,031	1,951
54 University of Chicago	2,153	2,070	1,954	1,941	1,918	1,984	1,781	1,935
55 University of Central Florida	1,615	524	1,579	1,510	1,508	1,739	1,795	1,930
56 Nova Southeastern University	1,778	1,808	1,712	1,710	1,722	1,838	1,880	1,924
57 University of Oklahoma	1,774	1,703	1,732	1,547	1,527	1,558	1,522	1,912
58 University of Connecticut	2,089	2,067	1,991	1,874	1,820	1,915	1,750	1,905
59 University of Tennessee at Knoxville	2,489	2,283	2,082	1,937	1,997	1,887	1,676	1,867
60 Univ of Houston	1,985	1,844	1,826	1,858	1,826	1,938	1,917	1,843
Total, 1st 60 institutions	187,223	181,844	180,127	175,866	174,421	178,413	182,270	188,887

See explanatory information, if any, and SOURCE at end of table.

Table 45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994-2001

Page 2 of 6

Institutional ranking in 2001	1994	1995	1996	1997	1998	1999	2000	2001
61 University of New Mexico	1,817	1,819	1,735	1,607	1,612	1,658	1,779	1,837
62 Johns Hopkins University	1,610	1,645	1,677	1,734	1,835	1,802	1,755	1,835
63 University of Cincinnati	2,233	2,267	2,183	1,945	1,930	1,904	1,815	1,821
64 University of Utah	1,684	1,814	1,690	1,586	1,550	1,550	1,681	1,799
65 University of Georgia	1,855	1,837	1,798	1,818	1,760	1,758	1,822	1,798
66 American University	2,280	2,166	2,034	1,951	1,857	1,857	1,822	1,793
67 University of South Florida	1,743	1,744	1,699	1,700	1,655	1,789	1,712	1,779
68 University of Kentucky	1,800	1,791	1,708	1,657	1,575	1,751	1,532	1,771
69 Rensselaer Polytechnic Institute	1,933	1,694	1,508	1,623	1,557	1,646	1,728	1,751
70 University of Calif, Santa Barbara	1,439	1,444	1,439	1,412	1,538	1,570	1,625	1,741
Total, 1st 70 institutions	205,617	200,065	197,598	192,899	191,290	195,698	199,541	206,812
71 Kansas State University	1,781	1,777	1,709	1,679	1,669	1,753	1,765	1,704
72 Syracuse University	1,817	1,518	1,516	1,341	1,591	1,613	1,695	1,695
73 University of Wisconsin-Milwaukee	1,484	1,427	1,384	1,327	1,286	1,201	1,733	1,693
74 University of Virginia	1,878	1,798	1,731	1,669	1,610	1,561	1,631	1,686
75 Univ of Texas at Dallas	946	944	1,033	1,134	1,109	1,221	1,636	1,637
76 CUNY Graduate Center	1,699	1,573	1,529	2,022	2,022	1,748	1,569	1,628
77 Northeastern University	1,973	1,815	1,801	1,741	1,724	1,709	1,690	1,590
78 Oklahoma State University	1,747	1,785	1,719	1,718	1,811	1,640	1,460	1,569
79 University of Calif, Irvine	1,442	1,392	1,357	1,309	1,319	1,360	1,406	1,569
80 Clemson University	1,757	1,686	1,658	1,596	1,529	1,562	1,522	1,568
Total, 1st 80 institutions	222,141	215,780	213,035	208,435	206,960	211,066	215,648	223,151
81 Western Michigan University	1,548	1,326	1,311	1,417	1,500	1,412	1,227	1,553
82 Auburn University	1,854	1,849	1,687	1,529	1,451	1,399	1,498	1,545
83 San Diego State University	1,473	1,148	1,277	1,246	1,237	1,456	1,474	1,543
84 University of Iowa	1,714	1,687	1,601	1,505	1,437	1,410	1,447	1,515
85 Florida State University	1,402	1,506	1,389	1,306	1,266	1,297	1,429	1,501
86 Oregon State University	1,887	1,891	1,796	1,651	1,397	1,439	1,464	1,494
87 Princeton University	1,298	1,307	1,266	1,240	1,309	1,323	1,427	1,485
88 University of Missouri-Columbia	1,789	1,743	1,605	1,552	1,454	1,541	1,452	1,479
89 Northwestern University	1,719	1,645	1,638	1,516	1,479	1,515	1,438	1,471
90 University of Arkansas Main	1,225	1,321	1,236	1,062	1,195	1,227	1,282	1,465
Total, 1st 90 institutions	238,050	231,203	227,841	222,459	220,685	225,085	229,786	238,202
91 Old Dominion University	1,232	1,237	1,248	1,274	1,281	1,223	1,277	1,463
92 West Virginia University	1,409	1,324	1,285	1,414	1,406	1,473	1,458	1,457
93 University of Hawaii at Manoa	1,843	1,763	1,734	1,598	1,575	1,488	1,412	1,455
94 University of Delaware	1,505	1,493	1,409	1,377	1,429	1,413	1,396	1,443
95 Southern Illinois Univ at Carbondale	1,304	1,282	1,213	1,154	1,246	1,328	1,481	1,425
96 Yale University	1,549	1,539	1,456	1,312	1,315	1,322	1,350	1,423
97 Univ of North Texas	1,287	1,230	1,205	1,297	1,309	1,608	1,410	1,412
98 University of Nebraska at Lincoln	1,982	1,833	1,758	1,624	1,550	1,567	1,522	1,409
99 Drexel University	1,534	1,405	1,425	1,594	1,557	1,479	1,467	1,371
100 Teachers College, Columbia University	1,661	1,741	1,842	1,906	1,998	2,106	1,245	1,350
Total, 1st 100 institutions	253,356	246,050	242,416	237,009	235,351	240,092	243,804	252,410
101 Fairleigh Dickinson University	849	841	871	841	844	901	1,109	1,333
102 Texas Tech University	1,432	1,343	1,264	1,294	1,325	1,198	1,190	1,329
103 Duke University	1,361	1,337	1,310	1,262	1,318	1,339	1,379	1,314
104 Florida International University	1,036	1,083	1,046	1,041	1,015	1,114	1,262	1,308
105 Long Island University	1,041	1,137	1,089	1,069	1,005	1,279	1,279	1,307
106 Washington University	1,339	1,308	1,226	1,196	1,232	1,263	1,233	1,296
107 University of Louisville	1,125	1,099	1,095	963	998	1,183	1,127	1,293
108 University of Massachusetts Lowell	1,679	1,783	1,646	1,515	1,576	1,557	1,366	1,261
109 Mississippi State University	1,165	1,119	1,132	1,149	1,458	1,154	1,230	1,230
110 Temple University	1,163	1,078	1,264	979	952	957	1,379	1,214
Total, 1st 110 institutions	265,546	258,178	254,359	248,318	247,074	252,037	256,358	265,295
111 Utah State University	1,370	1,337	1,229	1,143	1,120	1,188	1,175	1,203
112 University of South Carolina	1,649	1,604	1,448	1,450	1,325	1,222	1,217	1,198
113 University of Alabama at Birmingham, The	815	789	920	1,028	1,101	1,062	1,118	1,195
114 Case Western Reserve University	1,447	1,422	1,426	1,433	1,349	1,234	1,250	1,191
115 Wichita State University	705	761	812	865	986	905	990	1,181
116 Antioch University	1,590	1,474	1,430	1,320	1,083	1,099	1,136	1,178
117 Univ of Puerto Rico Rio Piedras Campus	1,129	1,083	1,065	1,086	1,113	1,176	1,150	1,177
118 Pace University	808	564	829	564	561	605	801	1,161
119 University of Missouri-Rolla	1,021	1,016	914	886	848	857	1,016	1,159
120 Tufts University	1,070	1,018	1,073	1,067	995	972	1,101	1,140
Total, 1st 120 institutions	277,150	269,246	265,505	259,160	257,555	262,357	267,312	277,078

See explanatory information, if any, and SOURCE at end of table.

Table 45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994-2001

Page 3 of 6

Institutional ranking in 2001	1994	1995	1996	1997	1998	1999	2000	2001
121 Calif Institute of Technology	1,087	1,073	1,022	1,031	982	982	1,042	1,139
122 SUNY at Binghamton	1,132	1,093	1,072	1,093	1,067	1,113	1,106	1,137
123 University of Akron	1,320	1,344	1,369	1,361	1,231	1,205	961	1,136
124 Washington State University	1,421	1,450	1,391	1,228	1,200	1,104	1,168	1,134
125 Portland State University	1,061	1,009	1,026	1,001	1,038	1,203	1,070	1,129
126 Northern Illinois University	1,097	1,109	1,055	1,034	993	1,006	1,025	1,116
127 Georgia State University	1,097	1,102	1,024	1,032	1,004	1,056	1,015	1,113
128 University of Memphis, The	927	873	757	997	816	783	828	1,100
129 University of Idaho	1,145	1,081	1,018	1,149	1,208	1,200	1,042	1,084
130 Brigham Young University	1,193	1,154	1,188	1,179	1,059	1,042	965	1,072
Total, 1st 130 institutions	288,630	280,534	276,427	270,265	268,153	273,051	277,534	288,238
131 Virginia Commonwealth University	1,139	1,213	1,146	1,022	1,070	1,409	1,025	1,059
132 Vanderbilt University	1,117	1,137	1,154	1,129	1,121	1,124	1,113	1,054
133 Southern Methodist University	1,031	1,131	1,222	1,260	1,167	1,137	1,038	1,040
134 University of Maryland, Baltimore County	1,035	1,027	964	869	909	851	882	1,037
135 New Mexico State University	1,212	1,176	1,052	990	963	915	914	1,023
136 University of Rochester	1,305	1,226	1,146	1,097	1,033	1,026	972	1,016
137 University of Miami	1,252	1,172	1,095	1,012	996	958	1,002	1,005
138 New School University	1,032	1,008	1,031	1,060	1,000	999	957	995
139 University of Nevada, Reno	956	963	918	956	966	926	899	989
140 Wright State University	815	845	873	851	867	854	901	984
Total, 1st 140 institutions	299,524	291,432	287,028	280,511	278,245	283,250	287,237	298,440
141 Florida Institute of Technology	801	754	756	743	740	721	775	973
142 Calif State Univ, Long Beach	1,486	1,428	1,383	1,317	1,351	1,285	1,213	960
143 Stevens Institute of Technology	1,360	1,305	1,390	1,326	1,163	1,219	911	958
144 University of Calif, Riverside	729	795	757	785	739	772	881	944
145 Ohio University	927	921	928	940	896	898	968	928
146 University of Alabama, The	963	985	1,070	1,040	1,000	966	943	927
147 University of Notre Dame	855	859	873	846	826	834	835	922
148 Cleveland State University	1,151	1,122	758	774	759	735	894	904
149 Univ of North Carolina at Charlotte	713	740	728	674	625	684	804	895
150 University of Toledo	750	818	963	925	915	913	862	895
Total, 1st 150 institutions	309,259	301,159	296,634	289,881	287,259	292,277	296,323	307,746
151 Florida Atlantic University	980	929	895	857	810	893	871	883
152 Fielding Institute, The	484	899	905	948	937	964	895	874
153 University of Illinois at Springfield	791	924	887	841	780	919	756	850
154 Calif Sch of Prof Psych-San Diego	582	573	618	642	620	573	681	849
155 Rice University	811	752	723	737	746	730	763	848
156 University of Rhode Island	1,129	1,096	900	800	800	875	923	845
157 Polytechnic University	1,438	1,505	1,427	1,372	1,200	1,200	778	820
158 Walden University	0	0	223	310	555	669	730	808
159 Naval Postgraduate School	1,195	1,049	927	872	890	795	795	800
160 University of Calif, Santa Cruz	717	732	732	726	734	735	750	797
Total, 1st 160 institutions	317,386	309,618	304,871	297,986	295,331	300,630	304,265	316,120
161 University of Nebraska at Omaha	595	535	526	514	483	580	677	788
162 Oakland University	706	803	819	841	841	700	772	779
163 Kent State University	811	849	799	824	786	764	751	777
164 University of Alabama in Huntsville, The	926	819	706	697	680	755	753	777
165 Tulane University	897	834	829	726	743	746	794	775
166 Brown University	766	760	733	717	701	722	753	772
167 University of New Hampshire	660	689	795	757	737	760	770	768
168 Marquette University	600	556	591	626	707	679	758	764
169 University of Bridgeport	135	148	172	298	327	430	620	764
170 University of Wyoming	877	818	761	846	789	755	754	764
Total, 1st 170 institutions	324,359	316,429	311,602	304,832	302,125	307,521	311,667	323,848
171 Univ of Puerto Rico Mayaguez Campus	520	582	663	727	712	687	733	757
172 Southern University A&M, All Campuses	277	387	440	424	436	589	752	697
173 Southwest Texas State University	689	703	698	624	643	730	649	691
174 Lehigh University	1,085	999	1,072	1,030	987	901	682	687
175 Pepperdine University	1,039	943	806	739	713	682	646	678
176 University of Oregon	778	771	703	675	682	648	666	678
177 Emory University	685	719	713	711	707	680	665	676
178 Colorado School of Mines	851	806	778	765	762	700	668	668
179 Eastern Michigan University	655	571	549	601	624	607	656	658
180 University of Denver	858	808	768	727	768	825	862	655
Total, 1st 180 institutions	331,796	323,718	318,792	311,855	309,159	314,570	318,646	330,693

See explanatory information, if any, and SOURCE at end of table.

Table 45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994-2001

Page 4 of 6

Institutional ranking in 2001	1994	1995	1996	1997	1998	1999	2000	2001
181 Worcester Polytechnic Institute	711	634	603	596	816	811	603	651
182 Roosevelt University	541	608	585	628	600	555	536	649
183 Howard University	761	741	727	698	642	610	592	639
184 University of Montana, The	588	593	550	552	583	577	584	637
185 New York Institute of Technology	961	1,013	960	872	819	744	624	633
186 Santa Clara University	952	945	927	956	871	846	697	633
187 Carlos Albizu University	203	325	320	319	502	566	594	616
188 North Dakota State University	599	579	572	523	507	580	554	614
189 Yeshiva University	571	585	579	594	634	665	624	612
190 University of Mississippi	714	700	682	631	599	586	615	609
Total, 1st 190 institutions	338,397	330,441	325,297	318,224	315,732	321,110	324,669	336,986
191 Claremont Graduate University	683	659	684	712	655	625	604	607
192 University of Maine	757	737	666	584	586	572	588	605
193 Michigan Technological University	573	584	555	543	546	589	600	597
194 Univ of Texas Houston Hlth Sci Ctr	541	560	588	584	566	558	553	595
195 University of Nevada Las Vegas	531	567	521	510	495	450	524	595
196 Georgetown University	744	746	716	722	641	602	575	591
197 Rochester Institute of Technology	776	623	621	560	548	503	494	589
198 Loyola University of Chicago	684	777	811	810	768	799	878	584
199 Calif Sch of Prof Psych-Los Angeles	541	361	280	725	686	665	370	583
200 Miami University (OH)	518	483	425	434	483	521	502	576
Total, 1st 200 institutions	344,745	336,538	331,164	324,408	321,706	326,994	330,357	342,908
201 Towson University	332	344	401	451	458	482	516	571
202 Montana State University-Bozeman	605	594	569	551	569	583	550	570
203 University of Missouri-Kansas City	431	512	470	467	465	422	482	561
204 Marshall University	224	250	264	544	723	621	551	553
205 St. John's University	556	530	469	455	466	528	518	547
206 Indiana State University	343	345	346	369	312	320	252	542
207 Northern Arizona University	587	572	549	517	538	527	519	533
208 University of Southern Mississippi	548	634	604	582	573	437	500	532
209 Univ of Louisiana at Lafayette	466	429	469	438	402	454	530	531
210 Ball State University	436	442	486	482	453	517	500	521
Total, 1st 210 institutions	349,273	341,190	335,791	329,264	326,665	331,885	335,275	348,369
211 University of Vermont	629	680	570	538	541	535	539	520
212 Brandeis University	473	524	565	549	550	455	494	519
213 Illinois State University	514	549	564	547	547	500	510	514
214 University of Dayton	788	651	635	551	482	541	508	493
215 Bowling Green State University	667	708	609	573	492	489	503	490
216 University of Missouri-St. Louis	425	455	438	392	382	420	479	479
217 Central Michigan University	353	363	422	425	462	391	466	477
218 University of North Dakota	335	333	324	324	451	463	499	464
219 SUNY College of Env Science and Forestry	415	410	395	400	426	434	435	462
220 Seton Hall University	394	610	577	546	543	531	498	459
Total, 1st 220 institutions	354,266	346,473	340,890	334,109	331,541	336,644	340,206	353,246
221 Fordham University	559	500	472	471	458	424	417	453
222 University of Alaska Fairbanks	627	600	587	571	503	502	441	453
223 North Carolina A&T State University	404	401	407	386	412	406	415	448
224 Dartmouth College	371	363	351	357	308	420	444	447
225 Oregon Grad Inst School of Science & Eng	318	287	205	301	279	235	369	443
226 MCP Hahnemann University	422	513	482	510	544	462	435	436
227 Texas A&M Univ-Commerce	245	244	244	278	310	339	375	427
228 University of South Alabama	328	326	367	338	336	352	397	427
229 Univ of Texas at San Antonio	508	478	466	483	444	395	366	425
230 Saint Louis University	478	479	475	430	430	426	407	424
Total, 1st 230 institutions	358,526	350,664	344,946	338,234	335,565	340,605	344,272	357,629
231 South Dakota State University	498	499	497	459	421	383	395	422
232 Loma Linda University	169	194	278	533	470	458	404	420
233 Texas A&M Univ-Kingsville	393	408	378	484	381	419	398	417
234 East Carolina University	313	333	331	331	405	362	343	415
235 Texas Woman's University	508	503	573	526	521	467	370	414
236 Lamar University	349	295	290	294	280	335	342	408
237 Boston College	493	480	495	464	454	416	405	407
238 University of Detroit Mercy	626	607	484	454	441	408	407	402
239 Pontifical Cath Univ of Puerto Rico, The	20	20	10	11	10	17	311	397
240 Univ of North Carolina at Greensboro	370	305	288	295	339	365	380	396
Total, 1st 240 institutions	362,265	354,308	348,570	342,085	339,287	344,235	348,027	361,727

See explanatory information, if any, and SOURCE at end of table.

Table 45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994-2001

Page 5 of 6

Institutional ranking in 2001	1994	1995	1996	1997	1998	1999	2000	2001
241 Catholic University of America	672	602	598	518	480	439	403	395
242 Univ of Texas SW Medical Ctr at Dallas	385	381	379	352	355	364	349	389
243 University of Calif, San Francisco	352	330	338	330	362	315	390	387
244 Sam Houston State University	386	374	369	315	387	367	284	386
245 College of William and Mary	436	450	434	394	401	423	408	385
246 Union Institute, The	673	512	302	274	410	419	374	374
247 Tennessee State University	327	388	375	382	401	373	332	373
248 Hofstra University	356	346	335	371	360	357	369	371
249 Indiana University of Pennsylvania	301	333	296	317	321	374	352	369
250 University of Tulsa	346	350	310	300	312	307	306	356
Total, 1st 250 institutions	366,499	358,374	352,306	345,638	343,076	347,973	351,594	365,512
251 Baylor College of Medicine	273	285	284	302	317	333	335	352
252 University of Hartford	271	272	288	249	295	225	346	352
253 Univ of Texas at El Paso	660	578	588	579	576	647	621	346
254 University of Baltimore	389	389	417	439	314	380	358	334
255 Fuller Theological Seminary	381	416	408	396	369	334	304	327
256 Clark University	261	351	320	269	277	281	283	326
257 Louisiana Tech University	345	303	306	327	280	249	315	324
258 Philadelphia Col of Osteopathic Med	0	85	120	157	188	196	349	321
259 South Dakota School of Mines and Tech	194	208	196	183	205	205	276	321
260 Wright Institute	242	253	248	245	293	292	282	318
Total, 1st 260 institutions	369,515	361,514	355,481	348,784	346,190	351,115	355,063	368,833
261 Calif Sch of Prof Psych-Fresno	370	399	411	339	308	374	357	312
262 Loyola College	853	756	745	699	684	654	342	307
263 Univ of Med and Dentistry of New Jersey	225	206	197	198	214	241	312	299
264 Baylor University	363	337	332	298	282	268	281	298
265 University of Massachusetts Dartmouth	196	187	172	245	264	258	261	297
266 Duquesne University	382	335	393	337	341	327	324	294
267 Azusa Pacific University	288	206	363	387	392	334	326	289
268 Pacific Graduate School of Psychology	351	314	349	299	285	296	288	288
269 Wake Forest University	290	272	276	275	245	267	270	280
270 Air Force Institute of Technology	481	514	533	504	426	392	423	275
Total, 1st 270 institutions	373,314	365,040	359,252	352,365	349,631	354,526	358,247	371,772
271 Middle Tennessee State University	557	435	441	323	287	271	276	271
272 New Mexico Institute of Mining and Tech	232	222	233	224	232	251	270	269
273 CUNY Hunter College	378	374	203	186	206	262	239	266
274 Adelphi University	271	248	287	318	228	296	229	265
275 Idaho State University	374	377	325	277	266	258	267	265
276 Jackson State University	332	328	322	324	313	287	283	258
277 Tennessee Technological University	319	323	307	308	315	342	270	257
278 East Tennessee State University	304	321	325	392	268	287	214	256
279 University of Maryland, Baltimore	287	261	280	295	312	256	253	254
280 Forest Institute of Professional Psych	162	148	166	181	224	246	251	251
Total, 1st 280 institutions	376,530	368,077	362,141	355,193	352,282	357,282	360,799	374,384
281 Florida A&M University	229	268	251	243	218	231	281	249
282 Calif Institute of Integral Studies	416	450	487	381	360	343	354	243
283 Stephen F. Austin State University	260	243	247	271	254	271	239	241
284 Golden Gate University	331	476	381	488	389	318	373	235
285 University of Arkansas at Little Rock	255	228	230	230	192	197	240	235
286 James Madison University	97	103	104	166	212	254	234	230
287 University of La Verne	118	154	130	204	188	320	225	217
288 Maharishi University of Management	48	33	35	48	78	81	167	215
289 Mt. Sinai School of Medicine	169	174	178	183	192	190	197	210
290 University of Northern Colorado	216	166	180	181	192	208	220	207
Total, 1st 290 institutions	378,669	370,372	364,364	357,588	354,557	359,695	363,329	376,666
291 Medical University of South Carolina	193	237	238	235	225	238	216	203
292 Morgan State University	87	73	69	89	80	103	111	200
293 University of South Dakota	207	221	225	209	203	203	195	200
294 Boise State University	0	0	0	0	0	0	0	198
295 Calif Sch of Prof Psych-Alameda	455	428	370	286	262	246	223	197
296 Thomas Jefferson University	249	297	307	281	260	289	236	197
297 Finch U of Hlth Sci/The Chicago Med Sch	133	269	288	277	253	237	215	196
298 Clarkson University	254	239	226	216	180	197	204	191
299 Barry University	0	0	0	0	0	0	0	185
300 Clark Atlanta University	418	382	374	347	299	256	200	184
Total, 1st 300 institutions	380,665	372,518	366,461	359,528	356,319	361,464	364,929	378,617

See explanatory information, if any, and SOURCE at end of table.

Table 45. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 2001 total graduate science and engineering students: 1994-2001

Page 6 of 6

Institutional ranking in 2001	1994	1995	1996	1997	1998	1999	2000	2001
301 Univ of Texas San Antonio Hlth Sci Ctr	168	169	182	189	190	186	179	184
302 New York Medical College	241	239	238	188	174	167	163	183
303 Oregon Health & Science University	138	143	135	123	136	137	149	174
304 University of Tennessee Health Sci Ctr	157	156	134	158	181	180	180	170
305 Fitchburg State College	0	0	0	0	0	0	0	159
306 Ferris State University	0	0	0	0	0	0	0	154
307 Univ of Texas Med Branch at Galveston	158	152	140	160	148	150	149	152
308 Alfred University	174	154	170	129	130	134	147	148
309 Arkansas State University	265	264	260	262	314	158	165	148
310 Mayo Graduate School	114	136	133	141	142	139	153	148
Total, 1st 310 institutions	382,080	373,931	367,853	360,878	357,734	362,715	366,214	380,237
311 Medical College of Wisconsin	126	125	117	144	199	166	151	142
312 Xavier University	85	80	75	85	117	116	135	142
313 Meharry Medical College	144	140	139	131	125	125	145	137
314 Rockefeller University, The	132	125	93	105	110	109	119	134
315 Alabama A&M University	272	202	194	250	134	69	147	131
316 Spalding University	115	117	125	137	137	143	149	131
317 American International College	123	124	122	184	184	157	102	130
318 Univ of Louisiana at Monroe, The	147	119	172	181	157	138	136	130
319 University of Maryland, Eastern Shore	104	89	98	113	123	97	128	127
320 Eastern Virginia Medical School	156	155	136	139	130	127	124	126
Total, 1st 320 institutions	383,484	375,207	369,124	362,347	359,150	363,962	367,550	381,567
321 Widener University, All Campuses	152	145	132	106	88	84	57	120
322 Wesleyan University	143	120	120	119	117	112	114	119
323 Mercer University	147	154	147	167	161	171	170	118
324 Edinboro University of Pennsylvania	133	128	128	105	103	112	110	116
325 Andrews University	139	133	144	111	98	101	103	115
326 Woods Hole Oceanographic Institution	120	115	137	137	134	125	114	114
327 Creighton University	53	120	129	93	98	108	112	108
328 Univ of Puerto Rico Med Sci Campus	128	144	135	96	110	133	135	107
329 Hampton University	129	123	98	76	118	129	115	106
330 University of Arkansas, Med Sci Campus	113	124	138	131	145	136	117	105
Total, 1st 330 institutions	384,741	376,513	370,432	363,488	360,322	365,173	368,697	382,695
331 Texas Christian University	146	153	142	136	122	113	101	92
332 Bryn Mawr College	111	115	114	108	97	95	96	91
333 CUNY Herbert H. Lehman College	72	41	70	52	57	56	67	91
334 Medical College of Ohio	227	148	155	112	94	94	89	87
335 Texas A&M Univ-Sys Health Science Cent	0	0	0	0	0	56	72	87
336 Rush University	100	100	77	75	85	94	88	85
337 SUNY Upstate Medical University	71	65	68	68	72	77	81	84
338 Albany Medical College	95	102	93	96	80	76	83	79
339 Uniformed Serv Univ of the Hlth Sciences	57	58	55	63	62	61	68	74
340 University of Nebraska Medical Center	81	84	87	86	78	78	88	72
Total, 1st 340 institutions	385,701	377,379	371,293	364,284	361,069	365,973	369,530	383,537
341 RAND Graduate School of Policy Studies	55	56	52	49	54	57	64	69
342 Institute of Paper Science & Technology	79	83	76	68	74	75	69	68
343 University of San Diego	58	56	51	51	73	133	61	65
344 Univ of the Sciences in Philadelphia	29	30	26	21	29	34	45	56
345 SUNY Health Science Center at Brooklyn	94	82	76	78	66	63	55	53
346 Medical College of Georgia	66	66	67	73	68	88	51	52
347 University of the Pacific	54	51	55	50	49	50	50	46
348 Biola University	149	146	174	167	48	46	40	39
349 Ponce School of Medicine	12	16	13	17	17	17	21	23
350 Mass College of Pharmacy/Allied Health	20	20	20	23	23	25	20	20
Total, 1st 350 institutions	386,317	377,985	371,903	364,881	361,570	366,561	370,006	384,028
351 Morehouse School of Medicine	21	12	22	16	16	15	15	18
352 Baylor College of Dentistry	7	9	7	7	10	16	12	16
353 Slippery Rock University of Pennsylvania	123	123	168	158	189	179	107	10
Total, all 353 institutions	387,126	378,676	372,658	365,654	362,284	367,280	370,375	384,072

NOTES: Includes medical schools.
Ties listed in alphabetical order.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 46. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions,
by detailed field: 1994-2001**

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	36,285	35,823	37,026	38,368	39,971	40,667	43,044	42,899
Total, science and engineering fields	25,695	26,060	26,489	27,155	27,765	28,874	30,155	29,971
Sciences, total	23,099	23,425	23,824	24,191	24,918	25,687	26,846	26,858
Physical sciences, total	5,844	5,814	5,791	5,897	5,925	6,092	6,202	6,152
Astronomy	246	276	312	319	360	375	315	310
Chemistry	3,710	3,625	3,557	3,730	3,717	3,809	3,848	3,836
Physics	1,844	1,817	1,836	1,749	1,809	1,824	1,909	1,870
Physical sciences, n.e.c.	44	96	86	99	39	84	130	136
Earth, atmos., & ocean sci., total	817	845	859	940	902	923	1,155	1,035
Atmospheric sciences	89	88	80	98	85	107	94	87
Geosciences	437	440	449	492	468	477	514	470
Oceanography	237	258	244	258	249	235	246	218
Earth, atmos., & ocean sci., n.e.c.	54	59	86	92	100	104	301	260
Mathematical sciences, total	239	259	326	306	279	351	383	352
Mathematics & applied mathematics	220	242	306	283	255	321	355	329
Statistics	19	17	20	23	24	30	28	23
Computer sciences	184	213	247	319	371	330	363	357
Agricultural sciences	699	681	662	693	659	704	784	794
Biological sciences, total	14,382	14,661	14,907	15,096	15,781	16,123	16,764	16,913
Anatomy	466	468	498	541	532	574	504	488
Biochemistry	2,379	2,421	2,477	2,539	2,532	2,485	2,469	2,563
Biology	1,551	1,588	1,620	1,591	1,807	1,886	1,931	1,943
Biometry/epidemiology	128	153	153	181	175	176	127	153
Biophysics	184	230	252	240	239	266	164	187
Botany	590	630	599	596	581	597	554	582
Cell biology	1,686	1,802	1,775	1,815	2,121	2,153	2,157	2,056
Ecology	88	95	107	130	113	122	150	159
Entomology/parasitology	190	179	183	216	181	178	197	221
Genetics	661	752	719	736	732	795	793	882
Microbio., immunology, & virology	1,917	1,940	1,971	1,990	2,089	2,158	2,253	2,198
Nutrition	192	186	198	209	234	238	224	244
Pathology	1,256	1,188	1,220	1,377	1,332	1,321	1,757	1,779
Pharmacology	1,379	1,404	1,424	1,369	1,470	1,512	1,461	1,371
Physiology	1,109	1,026	1,089	1,118	1,138	1,132	1,140	1,198
Zoology	164	154	124	108	140	145	112	98
Biosciences, n.e.c.	442	445	498	340	365	385	771	791
Psychology, total	544	576	588	579	611	710	728	828
Psychology, general	306	291	355	354	387	407	410	498
Clinical psychology	38	56	50	45	51	70	73	82
Psychology, n.e.c.	200	229	183	180	173	233	245	248
Social sciences, total	390	376	444	361	390	454	467	427
Agricultural economics	45	39	56	50	38	43	41	34
Anthropology (cultural & social)	57	67	74	59	62	87	73	56
Economics (except agricultural)	46	27	16	19	29	31	32	43
Geography	26	16	22	12	18	30	34	36
History and philosophy of science	30	36	35	28	23	10	14	9
Linguistics	20	16	36	19	18	15	19	17
Political science	44	36	35	31	63	70	46	52
Sociology	78	91	127	102	79	104	102	87
Sociology/anthropology	4	0	0	0	0	0	0	4
Social sciences, n.e.c.	40	48	43	41	60	64	106	89
Engineering, total	2,596	2,635	2,665	2,964	2,847	3,187	3,309	3,113
Aerospace engineering	100	101	109	125	133	128	111	121
Agricultural engineering	45	46	48	58	56	62	56	55
Biomedical engineering	141	134	143	158	180	242	220	264
Chemical engineering	527	576	544	636	613	671	702	579
Civil engineering	210	200	230	248	225	299	295	278
Electrical engineering	407	378	393	505	487	548	525	435
Engineering science	95	101	93	115	110	122	163	162
Industrial/manufacturing eng.	54	30	29	27	30	27	48	20
Mechanical engineering	383	402	417	438	433	475	480	498
Metallurgical/materials eng.	441	490	496	464	404	419	507	466
Mining engineering	24	19	10	11	10	6	8	14
Nuclear engineering	39	28	28	33	19	30	40	76
Petroleum engineering	14	9	6	21	14	19	20	17
Engineering, n.e.c.	116	121	119	125	133	139	134	128

See explanatory information, if any, and SOURCE at end of table.

**Table 46. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions,
by detailed field: 1994-2001**

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	10,590	9,763	10,537	11,213	12,206	11,793	12,889	12,928
Medical fields, total	9,411	8,594	9,362	9,990	10,957	10,600	11,555	11,528
Anesthesiology	189	244	213	240	253	230	255	254
Cardiology	502	469	491	656	603	607	566	471
Oncology/cancer research	446	346	337	416	555	556	487	612
Endocrinology	268	255	292	312	251	255	263	213
Gastroenterology	314	289	261	316	272	294	310	265
Hematology	350	324	304	354	316	372	302	367
Neurology	814	875	1,034	1,113	1,167	1,164	1,194	1,310
Obstetrics and gynecology	253	282	281	236	232	223	386	354
Ophthalmology	357	327	336	382	374	367	381	385
Otorhinolaryngology	87	75	82	94	101	112	112	120
Pediatrics	775	696	739	809	875	887	925	961
Preventive medicine/community health	264	291	307	344	316	347	425	303
Psychiatry	650	618	646	644	665	601	683	755
Pulmonary disease	258	246	242	262	209	240	266	247
Radiology	338	314	337	428	434	461	450	500
Surgery	994	899	935	974	1,002	1,097	1,089	1,181
Clinical medicine, n.e.c.	2,552	2,044	2,525	2,410	3,332	2,787	3,461	3,230
Other health fields, total	1,179	1,169	1,175	1,223	1,249	1,193	1,334	1,400
Dental sciences	227	250	196	203	176	212	230	198
Nursing	48	43	23	38	41	49	64	54
Pharmaceutical sciences	571	501	503	504	511	435	434	493
Speech pathology/audiology	40	52	46	36	57	56	57	36
Veterinary sciences	141	162	192	220	222	248	284	329
Health related, n.e.c.	152	161	215	222	242	193	265	290

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 47. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field, source of support, and citizenship: 2001

Page 1 of 2

Field	Total	Source of support				Citizenship		
		Federal			Non-Federal	U.S. citizens and permanent residents	Temporary visa holders	
		Total	Fellowships	Trainee-ships				
Total, all surveyed fields	42,899	29,533	3,581	2,453	23,499	13,366	18,351	24,548
Total, science and engineering fields	29,971	21,741	2,086	1,223	18,432	8,230	12,081	17,890
Sciences, total	26,858	19,630	1,987	1,188	16,455	7,228	11,114	15,744
Physical sciences, total	6,152	4,568	363	39	4,166	1,584	2,013	4,139
Astronomy	310	261	46	1	214	49	159	151
Chemistry	3,836	2,705	249	35	2,421	1,131	1,231	2,605
Physics	1,870	1,489	68	3	1,418	381	558	1,312
Physical sciences, n.e.c.	136	113	0	0	113	23	65	71
Earth, atmos., & ocean sci., total	1,035	805	66	5	734	230	599	436
Atmospheric sciences	87	79	0	0	79	8	41	46
Geosciences	470	350	29	2	319	120	247	223
Oceanography	218	180	34	1	145	38	115	103
Earth, atmos., & ocean sci., n.e.c.	260	196	3	2	191	64	196	64
Mathematical sciences, total	352	221	60	8	153	131	154	198
Mathematics & applied mathematics	329	202	56	8	138	127	140	189
Statistics	23	19	4	0	15	4	14	9
Computer sciences	357	270	11	2	257	87	136	221
Agricultural sciences	794	488	19	0	469	306	316	478
Biological sciences, total	16,913	12,475	1,331	999	10,145	4,438	6,989	9,924
Anatomy	488	422	40	22	360	66	164	324
Biochemistry	2,563	1,960	142	91	1,727	603	1,064	1,499
Biology	1,943	1,468	328	30	1,110	475	901	1,042
Biometry/epidemiology	153	125	17	72	36	28	104	49
Biophysics	187	153	28	11	114	34	81	106
Botany	582	382	23	0	359	200	204	378
Cell biology	2,056	1,342	163	82	1,097	714	912	1,144
Ecology	159	91	10	6	75	68	106	53
Entomology/parasitology	221	160	0	1	159	61	94	127
Genetics	882	630	84	56	490	252	377	505
Microbiol., immunology, & virology	2,198	1,708	146	178	1,384	490	919	1,279
Nutrition	244	149	5	19	125	95	81	163
Pathology	1,779	1,190	84	189	917	589	777	1,002
Pharmacology	1,371	1,082	95	115	872	289	489	882
Physiology	1,198	983	101	94	788	215	416	782
Zoology	98	70	8	0	62	28	62	36
Biosciences, n.e.c.	791	560	57	33	470	231	238	553
Psychology, total	828	602	100	105	397	226	613	215
Psychology, general	498	351	50	63	238	147	348	150
Clinical psychology	82	58	1	25	32	24	75	7
Psychology, n.e.c.	248	193	49	17	127	55	190	58
Social sciences, total	427	201	37	30	134	226	294	133
Agricultural economics	34	24	1	0	23	10	22	12
Anthropology (cultural & social)	56	14	3	0	11	42	42	14
Economics (except agricultural)	43	9	0	0	9	34	27	16
Geography	36	28	1	0	27	8	22	14
History and philosophy of science	9	1	0	1	0	8	6	3
Linguistics	17	9	1	0	8	8	9	8
Political science	52	23	16	0	7	29	33	19
Sociology	87	47	11	18	18	40	69	18
Sociology/anthropology	4	1	0	0	1	3	4	0
Social sciences, n.e.c.	89	45	4	11	30	44	60	29
Engineering, total	3,113	2,111	99	35	1,977	1,002	967	2,146
Aerospace engineering	121	101	1	0	100	20	43	78
Agricultural engineering	55	40	1	0	39	15	11	44
Biomedical engineering	264	190	20	23	147	74	123	141
Chemical engineering	579	372	25	2	345	207	132	447
Civil engineering	278	154	3	0	151	124	101	177
Electrical engineering	435	298	8	2	288	137	117	318
Engineering science	162	131	3	0	128	31	61	101
Industrial/manufacturing eng.	20	13	3	0	10	7	5	15
Mechanical engineering	498	313	6	5	302	185	152	346
Metallurgical/materials eng.	466	313	20	3	290	153	121	345
Mining engineering	14	10	0	0	10	4	4	10
Nuclear engineering	76	72	6	0	66	4	53	23
Petroleum engineering	17	5	0	0	5	12	6	11
Engineering, n.e.c.	128	99	3	0	96	29	38	90

See explanatory information, if any, and SOURCE at end of table.

Table 47. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field, source of support, and citizenship: 2001

Page 2 of 2

Field	Total	Source of support				Citizenship		
		Federal			Non-Federal	U.S. citizens and permanent residents	Temporary visa holders	
		Total	Fellowships	Trainee-ships				
Total, health fields	12,928	7,792	1,495	1,230	5,067	5,136	6,270	6,658
Medical fields, total	11,528	6,885	1,374	1,100	4,411	4,643	5,559	5,969
Anesthesiology	254	169	26	23	120	85	85	169
Cardiology	471	219	37	52	130	252	197	274
Oncology/cancer research	612	410	62	97	251	202	305	307
Endocrinology	213	150	45	32	73	63	101	112
Gastroenterology	265	153	21	19	113	112	80	185
Hematology	367	218	17	40	161	149	156	211
Neurology	1,310	899	96	81	722	411	597	713
Obstetrics and gynecology	354	133	35	9	89	221	212	142
Ophthalmology	385	157	15	16	126	228	107	278
Otorhinolaryngology	120	67	11	10	46	53	33	87
Pediatrics	961	579	97	99	383	382	467	494
Preventive medicine/community health	303	223	38	38	147	80	176	127
Psychiatry	755	480	70	108	302	275	490	265
Pulmonary disease	247	140	64	28	48	107	177	70
Radiology	500	332	34	32	266	168	260	240
Surgery	1,181	564	133	46	385	617	506	675
Clinical medicine, n.e.c.	3,230	1,992	573	370	1,049	1,238	1,610	1,620
Other health fields, total	1,400	907	121	130	656	493	711	689
Dental sciences	198	104	10	21	73	94	89	109
Nursing	54	47	13	19	15	7	42	12
Pharmaceutical sciences	493	306	31	12	263	187	177	316
Speech pathology/audiology	36	32	4	0	28	4	28	8
Veterinary sciences	329	203	23	17	163	126	180	149
Health related, n.e.c.	290	215	40	61	114	75	195	95

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 48. Total postdoctoral appointees in doctorate-granting institutions,
by area of study, ranked by total postdoctoral appointees: 2001**

Page 1 of 5

Institutional ranking	Total, all surveyed fields	Science and engineering			Health fields
		Total	Science	Engi- neering	
Total, all institutions	42,899	29,971	26,858	3,113	12,928
1 Harvard University	3,597	1,596	1,546	50	2,001
2 Stanford University	1,210	705	646	59	505
3 Johns Hopkins University	1,159	479	419	60	680
4 Yeshiva University	1,117	598	598	0	519
5 Univ of Pennsylvania	950	527	476	51	423
6 University of Colorado	950	796	725	71	154
7 University of Calif, San Diego	949	586	543	43	363
8 University of Washington	938	560	514	46	378
9 University of Calif, Berkeley	896	819	732	87	77
10 University of Calif, Los Angeles	847	455	382	73	392
Total, 1st 10 institutions	12,613	7,121	6,581	540	5,492
11 Massachusetts Institute of Technology	828	808	578	230	20
12 Cornell University	689	518	425	93	171
13 Washington University	639	306	297	9	333
14 Duke University	635	378	340	38	257
15 University of Michigan	624	335	243	92	289
16 University of Minnesota	624	504	430	74	120
17 Univ of North Carolina at Chapel Hill	594	345	344	1	249
18 University of Calif, Davis	585	468	396	72	117
19 University of Pittsburgh	554	313	283	30	241
20 Yale University	551	388	372	16	163
Total, 1st 20 institutions	18,936	11,484	10,289	1,195	7,452
21 University of Southern California	549	322	291	31	227
22 Calif Institute of Technology	529	529	436	93	0
23 Baylor College of Medicine	506	303	303	0	203
24 University of Wisconsin-Madison	467	366	354	12	101
25 Univ of Texas SW Medical Ctr at Dallas	464	282	282	0	182
26 University of Calif, San Francisco	430	113	113	0	317
27 Tufts University	428	109	98	11	319
28 University of Arizona	420	395	378	17	25
29 Emory University	415	211	211	0	204
30 Vanderbilt University	408	274	263	11	134
Total, 1st 30 institutions	23,552	14,388	13,018	1,370	9,164
31 University of Massachusetts	397	263	246	17	134
32 SUNY at Stony Brook	394	284	273	11	110
33 University of Iowa	370	175	162	13	195
34 University of Virginia	366	306	272	34	60
35 University of Chicago	361	252	252	0	109
36 Indiana University	356	236	230	6	120
37 Princeton University	339	339	266	73	0
38 Univ of Texas M.D. Anderson Cancer Ctr	330	168	168	0	162
39 Rockefeller University, The	324	270	270	0	54
40 Mayo Graduate School	321	94	94	0	227
Total, 1st 40 institutions	27,110	16,775	15,251	1,524	10,335
41 SUNY at Buffalo	317	297	278	19	20
42 Columbia Univ in the City of New York	315	256	233	23	59
43 University of Alabama at Birmingham, The	312	194	187	7	118
44 University of Florida	311	281	265	16	30
45 Pennsylvania State University	307	273	231	42	34
46 University of Calif, Irvine	295	254	240	14	41
47 Michigan State University	289	283	259	24	6
48 New York University	284	241	241	0	43
49 Ohio State University	283	225	211	14	58
50 Case Western Reserve University	281	185	174	11	96
Total, 1st 50 institutions	30,104	19,264	17,570	1,694	10,840
51 University of Illinois at Chicago	265	147	132	15	118
52 University of Rochester	263	153	152	1	110
53 University of Illinois at Urbana-Champaign	261	239	190	49	22
54 University of Utah	260	245	222	23	15
55 Northwestern University	251	251	161	90	0
56 University of Kentucky	250	193	167	26	57
57 Purdue University	247	198	160	38	49
58 University of Connecticut	241	198	152	46	43
59 Thomas Jefferson University	235	164	164	0	71
60 Univ of Texas Med Branch at Galveston	235	128	128	0	107
Total, 1st 60 institutions	32,612	21,180	19,198	1,982	11,432

See explanatory information, if any, and SOURCE at end of table.

**Table 48. Total postdoctoral appointees in doctorate-granting institutions,
by area of study, ranked by total postdoctoral appointees: 2001**

Page 2 of 5

Institutional ranking	Total, all surveyed fields	Science and engineering			Health fields
		Total	Science	Engi- neering	
61 Texas A&M Univ	232	217	201	16	15
62 University of Calif, Riverside	224	218	201	17	6
63 University of Maryland at College Park	224	218	177	41	6
64 Colorado State University	218	188	175	13	30
65 Medical University of South Carolina	216	109	109	0	107
66 Univ of Texas at Austin	207	180	148	32	27
67 Louisiana State University	195	170	157	13	25
68 University of Kansas	194	170	166	4	24
69 Wayne State University	191	100	100	0	91
70 University of Georgia	187	174	174	0	13
Total, 1st 70 institutions	34,700	22,924	20,806	2,118	11,776
71 University of Maryland, Baltimore	181	125	125	0	56
72 Iowa State University	180	180	126	54	0
73 University of Calif, Santa Barbara	176	176	106	70	0
74 University of Cincinnati	173	73	70	3	100
75 University of Calif, Santa Cruz	172	172	169	3	0
76 Rutgers the State Univ of New Jersey	161	134	94	40	27
77 Washington State University	161	120	98	22	41
78 Oregon Health & Science University	160	106	106	0	54
79 Univ of Med and Dentistry of New Jersey	155	107	107	0	48
80 University of Missouri-Columbia	142	109	100	9	33
Total, 1st 80 institutions	36,361	24,226	21,907	2,319	12,135
81 University of Miami	141	111	109	2	30
82 Carnegie Mellon University	140	140	103	37	0
83 University of Tennessee Health Sci Ctr	136	124	124	0	12
84 University of South Carolina	133	129	62	67	4
85 University of Delaware	131	131	86	45	0
86 Virginia Commonwealth University	126	73	73	0	53
87 Kansas State University	122	122	119	3	0
88 Medical College of Wisconsin	121	79	79	0	42
89 University of Notre Dame	120	120	93	27	0
90 University of Tennessee at Knoxville	120	103	95	8	17
Total, 1st 90 institutions	37,651	25,358	22,850	2,508	12,293
91 Florida State University	116	116	105	11	0
92 Univ of Texas San Antonio Hlth Sci Ctr	113	99	99	0	14
93 Virginia Polytechnic Inst and State Univ	111	101	68	33	10
94 University of Oklahoma	109	81	74	7	28
95 Oregon State University	107	101	82	19	6
96 Rice University	107	107	86	21	0
97 Brown University	106	86	64	22	20
98 Wake Forest University	103	55	54	1	48
99 University of Louisville	101	29	26	3	72
100 Texas Tech University	99	91	74	17	8
Total, 1st 100 institutions	38,723	26,224	23,582	2,642	12,499
101 Dartmouth College	98	84	84	0	14
102 University of Vermont	92	73	69	4	19
103 Brandeis University	91	63	63	0	28
104 Boston University	87	68	68	0	19
105 Medical College of Georgia	84	77	77	0	7
106 Arizona State University	81	81	63	18	0
107 Montana State University-Bozeman	79	62	49	13	17
108 Georgetown University	76	64	64	0	12
109 University of Nebraska at Lincoln	76	68	68	0	8
110 North Carolina State University	75	70	52	18	5
Total, 1st 110 institutions	39,562	26,934	24,239	2,695	12,628
111 Loyola University of Chicago	74	46	46	0	28
112 Texas A&M Univ-Sys Health Science Cent	73	73	73	0	0
113 University of South Florida	71	71	68	3	0
114 University of Hawaii at Manoa	69	67	52	15	2
115 Tulane University	67	67	59	8	0
116 Uniformed Serv Univ of the Hlth Sciences	67	64	64	0	3
117 Georgia Institute of Technology	64	64	56	8	0
118 Rensselaer Polytechnic Institute	64	64	47	17	0
119 University of Missouri-Kansas City	63	56	56	0	7
120 University of Nebraska Medical Center	63	37	37	0	26
Total, 1st 120 institutions	40,237	27,543	24,797	2,746	12,694

See explanatory information, if any, and SOURCE at end of table.

**Table 48. Total postdoctoral appointees in doctorate-granting institutions,
by area of study, ranked by total postdoctoral appointees: 2001**

Page 3 of 5

Institutional ranking	Total, all surveyed fields	Science and engineering			Health fields
		Total	Science	Engi- neering	
121 University of Oregon	63	63	63	0	0
122 CUNY Graduate Center	62	62	62	0	0
123 Univ of Houston	61	54	49	5	7
124 Rush University	59	41	41	0	18
125 University of Mississippi	59	40	35	5	19
126 Univ of Texas Houston Hlth Sci Ctr	58	0	0	0	58
127 University of Arkansas Main	57	57	49	8	0
128 George Washington University	55	32	32	0	23
129 University of Akron	54	54	46	8	0
130 Drexel University	52	52	24	28	0
Total, 1st 130 institutions	40,817	27,998	25,198	2,800	12,819
131 Temple University	51	18	17	1	33
132 University of New Mexico	51	51	46	5	0
133 North Dakota State University	46	44	36	8	2
134 Oklahoma State University	43	43	38	5	0
135 University of Wyoming	43	43	42	1	0
136 Loma Linda University	41	25	25	0	16
137 University of Maine	40	40	33	7	0
138 Georgia State University	39	39	39	0	0
139 Clarkson University	38	38	21	17	0
140 Lehigh University	38	38	22	16	0
Total, 1st 140 institutions	41,247	28,377	25,517	2,860	12,870
141 University of Maryland, Baltimore County	38	38	26	12	0
142 University of Wisconsin-Milwaukee	38	38	21	17	0
143 Boston College	37	37	37	0	0
144 Clemson University	37	37	27	10	0
145 Medical College of Ohio	37	31	31	0	6
146 Auburn University	34	27	19	8	7
147 Morehouse School of Medicine	33	33	33	0	0
148 New York Medical College	33	33	33	0	0
149 Northeastern University	32	32	31	1	0
150 West Virginia University	32	32	30	2	0
Total, 1st 150 institutions	41,598	28,715	25,805	2,910	12,883
151 Florida International University	31	31	31	0	0
152 Univ of Texas at Dallas	31	31	24	7	0
153 University of Arkansas, Med Sci Campus	31	31	31	0	0
154 University of Idaho	31	31	29	2	0
155 University of Toledo	31	31	31	0	0
156 University of Alabama, The	30	30	28	2	0
157 University of Denver	30	30	22	8	0
158 Utah State University	30	30	27	3	0
159 Saint Louis University	29	28	28	0	1
160 University of Rhode Island	29	29	25	4	0
Total, 1st 160 institutions	41,901	29,017	26,081	2,936	12,884
161 Mississippi State University	28	27	22	5	1
162 Univ of North Texas	28	28	28	0	0
163 Syracuse University	27	27	25	2	0
164 Southern Illinois Univ at Carbondale	26	26	17	9	0
165 Woods Hole Oceanographic Institution	26	26	22	4	0
166 Albany Medical College	25	25	25	0	0
167 Oregon Grad Inst School of Science & Eng	25	25	21	4	0
168 SUNY Upstate Medical University	25	25	25	0	0
169 Stevens Institute of Technology	24	24	14	10	0
170 University of New Hampshire	24	24	20	4	0
Total, 1st 170 institutions	42,159	29,274	26,300	2,974	12,885
171 Illinois Institute of Technology	23	23	13	10	0
172 University of Missouri-Rolla	23	23	14	9	0
173 University of Southern Mississippi	23	21	21	0	2
174 College of William and Mary	22	22	15	7	0
175 Polytechnic University	22	22	17	5	0
176 Wright State University	22	22	17	5	0
177 East Carolina University	21	21	21	0	0
178 Univ of North Texas Hlth Sci Ctr at Ft W	21	0	0	0	21
179 Univ of Texas at Arlington	20	20	14	6	0
180 University of Montana, The	19	14	14	0	5
Total, 1st 180 institutions	42,375	29,462	26,446	3,016	12,913

See explanatory information, if any, and SOURCE at end of table.

**Table 48. Total postdoctoral appointees in doctorate-granting institutions,
by area of study, ranked by total postdoctoral appointees: 2001**

Page 4 of 5

Institutional ranking	Total, all surveyed fields	Science and engineering			Health fields
		Total	Science	Engi- neering	
181 Institute of Paper Science & Technology	17	17	0	17	0
182 Meharry Medical College	17	17	17	0	0
183 University of South Alabama	17	17	17	0	0
184 Brigham Young University	16	16	15	1	0
185 Finch U of Hlth Sci/The Chicago Med Sch	16	16	16	0	0
186 Miami University (OH)	16	16	16	0	0
187 University of Missouri-St. Louis	16	16	16	0	0
188 Wesleyan University	16	16	16	0	0
189 Kent State University	15	15	15	0	0
190 University of Memphis, The	15	15	10	5	0
Total, 1st 190 institutions	42,536	29,623	26,584	3,039	12,913
191 University of Tulsa	15	15	7	8	0
192 Howard University	14	10	10	0	4
193 Ohio University	14	14	13	1	0
194 University of Nevada Las Vegas	14	14	12	2	0
195 University of North Dakota	14	14	14	0	0
196 New York Institute of Technology	13	12	4	8	1
197 Clark Atlanta University	12	12	12	0	0
198 Marquette University	12	12	12	0	0
199 New Jersey Institute of Technology	12	12	1	11	0
200 Worcester Polytechnic Institute	12	12	3	9	0
Total, 1st 200 institutions	42,668	29,750	26,672	3,078	12,918
201 Bowling Green State University	11	11	11	0	0
202 Northern Arizona University	11	11	11	0	0
203 Northern Illinois University	11	11	11	0	0
204 Old Dominion University	11	11	5	6	0
205 North Carolina A&T State University	10	10	1	9	0
206 SUNY at Albany	10	10	10	0	0
207 CUNY Hunter College	9	9	9	0	0
208 Clark University	9	9	9	0	0
209 Michigan Technological University	9	9	8	1	0
210 Univ of Louisiana at Lafayette	9	9	9	0	0
Total, 1st 210 institutions	42,768	29,850	26,756	3,094	12,918
211 Univ of Texas at San Antonio	9	9	8	1	0
212 Colorado School of Mines	8	8	3	5	0
213 Jackson State University	8	8	8	0	0
214 Creighton University	7	7	7	0	0
215 Florida Atlantic University	7	7	7	0	0
216 Univ of Puerto Rico Rio Piedras Campus	7	7	7	0	0
217 Hampton University	6	6	6	0	0
218 University of South Dakota	6	6	6	0	0
219 Cleveland State University	5	5	0	5	0
220 Florida Institute of Technology	5	5	5	0	0
Total, 1st 220 institutions	42,836	29,918	26,813	3,105	12,918
221 Mercer University	5	3	3	0	2
222 Nova Southeastern University	5	5	5	0	0
223 Alfred University	4	4	0	4	0
224 Duquesne University	4	4	4	0	0
225 Forest Institute of Professional Psych	4	4	4	0	0
226 Illinois State University	4	4	4	0	0
227 Rochester Institute of Technology	4	4	3	1	0
228 Calif Sch of Prof Psych-San Diego	3	3	3	0	0
229 Eastern Virginia Medical School	3	3	3	0	0
230 Idaho State University	3	3	3	0	0
Total, 1st 230 institutions	42,875	29,955	26,845	3,110	12,920
231 South Dakota State University	3	0	0	0	3
232 Central Michigan University	2	2	2	0	0
233 Fuller Theological Seminary	2	2	2	0	0
234 Kirksville College of Osteopathic Med	2	2	2	0	0
235 Lamar University	2	2	1	1	0
236 Marshall University	2	2	2	0	0
237 Morgan State University	2	0	0	0	2
238 SUNY College of Optometry	2	0	0	0	2
239 Univ of North Carolina at Charlotte	2	2	1	1	0
240 George Mason University	1	1	1	0	0
Total, 1st 240 institutions	42,895	29,968	26,856	3,112	12,927

See explanatory information, if any, and SOURCE at end of table.

**Table 48. Total postdoctoral appointees in doctorate-granting institutions,
by area of study, ranked by total postdoctoral appointees: 2001**

Page 5 of 5

Institutional ranking	Total, all surveyed fields	Science and engineering			Health fields
		Total	Science	Engi- neering	
241 Midwestern University	1	1	1	0	0
242 San Diego State University	1	1	0	1	0
243 Univ of the Sciences in Philadelphia	1	0	0	0	1
244 University of the Pacific	1	1	1	0	0
Total, all 244 institutions	42,899	29,971	26,858	3,113	12,928

NOTES: Includes medical schools. Ties listed in alphabetical order.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 49. Nonfaculty research scientists, engineers, and health professionals with doctorates in doctorate-granting institutions, by detailed field: 1994-2001

Page 1 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, all surveyed fields	6,197	6,511	6,588	6,713	7,096	7,568	7,872	7,387
Total, science and engineering fields	4,969	5,162	5,141	5,247	5,303	5,696	5,820	5,378
Sciences, total	4,144	4,373	4,411	4,399	4,493	4,756	4,925	4,589
Physical sciences, total	1,244	1,374	1,287	1,204	1,081	1,153	1,268	1,097
Astronomy	151	158	154	144	122	142	167	164
Chemistry	522	538	547	504	482	494	555	482
Physics	569	658	568	554	473	498	518	421
Physical sciences, n.e.c.	2	20	18	2	4	19	28	30
Earth, atmos., & ocean sci., total	363	419	431	429	415	436	486	453
Atmospheric sciences	27	21	46	76	48	41	36	29
Geosciences	198	219	191	149	158	175	217	186
Oceanography	118	152	167	163	172	169	204	207
Earth, atmos., & ocean sci., n.e.c.	20	27	27	41	37	51	29	31
Mathematical sciences, total	72	93	88	92	88	122	80	52
Mathematics & applied mathematics	69	88	82	89	83	112	70	46
Statistics	3	5	6	3	5	10	10	6
Computer sciences	48	66	107	87	124	133	153	148
Agricultural sciences	251	228	209	203	155	157	207	191
Biological sciences, total	1,835	1,943	1,895	1,981	2,241	2,342	2,256	2,262
Anatomy	38	47	58	55	40	88	96	103
Biochemistry	270	337	323	331	330	364	351	383
Biology	310	314	311	291	390	237	248	231
Biometry/epidemiology	37	32	26	24	33	40	55	68
Biophysics	54	58	44	54	41	37	17	34
Botany	86	88	66	62	76	90	63	58
Cell biology	177	211	195	213	239	244	168	224
Ecology	14	21	18	20	13	19	11	13
Entomology/parasitology	59	60	51	55	53	60	45	29
Genetics	63	65	79	121	77	86	84	92
Microbio., immunology, & virology	204	184	192	229	214	265	255	243
Nutrition	81	63	56	54	43	59	45	53
Pathology	145	132	136	114	135	149	199	214
Pharmacology	128	170	164	151	288	329	307	238
Physiology	103	115	119	147	167	182	179	189
Zoology	27	13	10	15	18	25	21	14
Biosciences, n.e.c.	39	33	47	45	84	68	112	76
Psychology, total	203	146	232	225	252	249	324	244
Psychology, general	153	127	142	124	133	130	171	129
Clinical psychology	14	7	22	20	26	26	35	25
Psychology, n.e.c.	36	12	68	81	93	93	118	90
Social sciences, total	128	104	162	178	137	164	151	142
Agricultural economics	15	12	17	27	31	34	23	18
Anthropology (cultural & social)	48	34	34	13	11	18	24	24
Economics (except agricultural)	3	9	16	6	3	7	3	5
Geography	9	4	11	17	14	16	13	14
History and philosophy of science	8	3	4	2	4	1	6	3
Linguistics	8	2	4	11	5	7	6	6
Political science	2	6	15	10	3	9	16	15
Sociology	9	11	15	34	27	29	25	15
Sociology/anthropology	0	0	3	5	4	4	3	1
Social sciences, n.e.c.	26	23	43	53	35	39	32	41
Engineering, total	825	789	730	848	810	940	895	789
Aerospace engineering	66	80	86	84	68	87	39	15
Agricultural engineering	23	27	15	19	28	28	24	26
Biomedical engineering	36	26	21	31	34	58	42	36
Chemical engineering	87	70	82	159	149	141	110	90
Civil engineering	54	66	69	66	61	81	131	95
Electrical engineering	159	175	144	168	152	169	145	116
Engineering science	30	37	38	50	49	60	60	62
Industrial/manufacturing eng.	6	3	2	8	5	5	7	15
Mechanical engineering	135	108	108	109	109	127	176	131
Metallurgical/materials eng.	139	120	95	83	120	115	109	103
Mining engineering	2	3	7	3	1	2	0	4
Nuclear engineering	36	32	29	28	4	11	13	6
Petroleum engineering	17	11	10	4	6	10	10	2
Engineering, n.e.c.	35	31	24	36	24	46	29	88

See explanatory information, if any, and SOURCE at end of table.

Table 49. Nonfaculty research scientists, engineers, and health professionals with doctorates in doctorate-granting institutions, by detailed field: 1994-2001

Page 2 of 2

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total, health fields	1,228	1,349	1,447	1,466	1,793	1,872	2,052	2,009
Medical fields, total	992	1,091	1,180	1,179	1,504	1,604	1,756	1,694
Anesthesiology	17	18	13	20	28	38	47	44
Cardiology	16	59	48	45	26	33	40	37
Oncology/cancer research	45	51	46	57	62	73	94	101
Endocrinology	20	30	29	27	31	15	36	24
Gastroenterology	24	30	22	32	11	14	29	21
Hematology	13	16	24	15	30	26	18	33
Neurology	101	103	115	128	162	207	168	191
Obstetrics and gynecology	16	23	19	20	20	38	22	17
Ophthalmology	16	23	23	29	54	32	53	39
Otorhinolaryngology	7	2	3	1	2	3	4	6
Pediatrics	90	73	116	73	78	114	101	116
Preventive medicine/community health	105	90	118	79	102	115	149	112
Psychiatry	89	67	80	80	57	62	75	85
Pulmonary disease	27	23	14	19	29	33	39	34
Radiology	59	35	53	74	48	55	98	88
Surgery	105	106	127	152	219	185	183	217
Clinical medicine, n.e.c.	242	342	330	328	545	561	600	529
Other health fields, total	236	258	267	287	289	268	296	315
Dental sciences	17	18	14	54	45	37	28	10
Nursing	8	7	15	16	12	2	13	12
Pharmaceutical sciences	101	117	99	97	98	114	129	141
Speech pathology/audiology	12	20	14	13	26	13	4	12
Veterinary sciences	60	56	70	63	70	72	81	100
Health related, n.e.c.	38	40	55	44	38	30	41	40

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 50. Graduate students in science, engineering, and health fields in historically black colleges and universities (HBCUs), by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001

Page 1 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, all surveyed fields	6,318	14	218	4,537	88	60	767	634
Total, science and engineering fields	5,198	8	187	3,753	57	58	518	617
Sciences, total	4,593	8	159	3,451	47	55	438	435
Physical sciences, total	264	0	18	170	3	12	24	37
Astronomy	0	0	0	0	0	0	0	0
Chemistry	164	0	9	106	2	9	6	32
Physics	100	0	9	64	1	3	18	5
Physical sciences, n.e.c.	0	0	0	0	0	0	0	0
Earth, atmos., & ocean sci., total	85	1	1	60	3	0	14	6
Atmospheric sciences	12	0	0	12	0	0	0	0
Geosciences	0	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0
Earth, atmos., & ocean sci., n.e.c.	73	1	1	48	3	0	14	6
Mathematical sciences, total	156	4	5	121	1	0	13	12
Mathematics & applied mathematics	156	4	5	121	1	0	13	12
Statistics	0	0	0	0	0	0	0	0
Computer sciences	490	0	74	202	1	2	28	183
Agricultural sciences	218	0	8	151	5	10	33	11
Biological sciences, total	682	1	22	561	1	3	33	61
Anatomy	3	0	0	1	0	0	1	1
Biochemistry	36	0	1	22	0	1	0	12
Biology	301	0	3	259	0	2	12	25
Biometry/epidemiology	0	0	0	0	0	0	0	0
Biophysics	0	0	0	0	0	0	0	0
Botany	21	0	0	21	0	0	0	0
Cell biology	0	0	0	0	0	0	0	0
Ecology	0	0	0	0	0	0	0	0
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	26	0	1	19	1	0	4	1
Microbio., immunology, & virology	49	1	7	36	0	0	2	3
Nutrition	89	0	4	68	0	0	9	8
Pathology	0	0	0	0	0	0	0	0
Pharmacology	60	0	3	51	0	0	2	4
Physiology	35	0	1	27	0	0	1	6
Zoology	0	0	0	0	0	0	0	0
Biosciences, n.e.c.	62	0	2	57	0	0	2	1
Psychology, total	1,212	1	15	981	28	21	151	15
Psychology, general	681	1	11	512	20	21	105	11
Clinical psychology	0	0	0	0	0	0	0	0
Psychology, n.e.c.	531	0	4	469	8	0	46	4
Social sciences, total	1,486	1	16	1,205	5	7	142	110
Agricultural economics	42	0	0	24	0	0	7	11
Anthropology (cultural & social)	0	0	0	0	0	0	0	0
Economics (except agricultural)	60	0	0	18	0	0	0	42
Geography	0	0	0	0	0	0	0	0
History and philosophy of science	4	0	0	1	0	0	3	0
Linguistics	0	0	0	0	0	0	0	0
Political science	786	0	12	661	2	6	70	35
Sociology	188	0	0	162	1	1	20	4
Sociology/anthropology	104	0	3	86	1	0	3	11
Social sciences, n.e.c.	302	1	1	253	1	0	39	7
Engineering, total	605	0	28	302	10	3	80	182
Aerospace engineering	0	0	0	0	0	0	0	0
Agricultural engineering	6	0	0	1	0	0	2	3
Biomedical engineering	0	0	0	0	0	0	0	0
Chemical engineering	31	0	10	17	0	0	4	0
Civil engineering	132	0	3	60	8	1	43	17
Electrical engineering	92	0	1	41	0	0	5	45
Engineering science	0	0	0	0	0	0	0	0
Industrial/manufacturing eng.	62	0	1	49	1	0	3	8
Mechanical engineering	104	0	0	48	0	2	8	46
Metallurgical/materials eng.	10	0	0	9	0	0	0	1
Mining engineering	0	0	0	0	0	0	0	0
Nuclear engineering	0	0	0	0	0	0	0	0
Petroleum engineering	0	0	0	0	0	0	0	0
Engineering, n.e.c.	168	0	13	77	1	0	15	62

See explanatory information, if any, and SOURCE at end of table.

Table 50. Graduate students in science, engineering, and health fields in historically black colleges and universities (HBCUs), by detailed field, citizenship, and race/ethnicity of U.S. citizens and permanent residents: 2001

Page 2 of 2

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		American Indian/ Alaskan Native	Asian/ Pacific Islander	Black non- Hispanic	Hispanic	Other or unknown	White non- Hispanic	
Total, health fields	1,120	6	31	784	31	2	249	17
Medical fields, total	108	0	1	60	0	0	47	0
Anesthesiology	48	0	0	5	0	0	43	0
Cardiology	0	0	0	0	0	0	0	0
Oncology/cancer research	3	0	0	3	0	0	0	0
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology	0	0	0	0	0	0	0	0
Obstetrics and gynecology	0	0	0	0	0	0	0	0
Ophthalmology	0	0	0	0	0	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0
Pediatrics	0	0	0	0	0	0	0	0
Preventive medicine/community health	44	0	1	39	0	0	4	0
Psychiatry	1	0	0	1	0	0	0	0
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	0	0	0	0	0	0	0	0
Surgery	0	0	0	0	0	0	0	0
Clinical medicine, n.e.c.	12	0	0	12	0	0	0	0
Other health fields, total	1,012	6	30	724	31	2	202	17
Dental sciences	0	0	0	0	0	0	0	0
Nursing	267	2	1	194	3	0	67	0
Pharmaceutical sciences	182	1	20	128	13	0	12	8
Speech pathology/audiology	245	3	1	143	13	2	74	9
Veterinary sciences	22	0	0	22	0	0	0	0
Health related, n.e.c.	296	0	8	237	2	0	49	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 51. Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field: 1994-2001

Field	1994	1995	1996	1997	1998	1999	2000	2001
Black students in all institutions								
Total, all surveyed fields	21,174	22,148	22,972	23,560	24,261	25,260	26,082	27,428
Total, science and eng. fields	17,610	18,285	19,066	19,341	19,649	20,330	20,977	21,773
Sciences, total	14,826	15,428	16,167	16,462	16,828	17,365	17,975	18,852
Physical sciences	856	897	986	952	913	903	916	879
Earth, atmos., & ocean sciences	202	215	219	203	202	213	220	227
Mathematical sciences	673	689	711	657	613	594	569	591
Computer sciences	1,182	1,155	1,276	1,300	1,355	1,501	1,533	1,726
Agricultural sciences	240	297	270	230	313	277	266	301
Biological sciences	1,709	1,882	2,008	2,163	2,171	2,244	2,264	2,369
Psychology	3,529	3,359	3,452	3,644	3,813	3,787	4,265	4,621
Social sciences	6,435	6,934	7,245	7,313	7,448	7,846	7,942	8,138
Engineering	2,784	2,857	2,899	2,879	2,821	2,965	3,002	2,921
Health fields	3,564	3,863	3,906	4,219	4,612	4,930	5,105	5,655
Black students in HBCUs								
Total, all surveyed fields	2,982	3,189	3,384	3,632	3,528	3,746	4,134	4,537
Total, science and eng. fields	2,768	2,906	3,174	3,279	3,082	3,233	3,563	3,753
Sciences, total	2,515	2,612	2,883	2,995	2,799	2,939	3,219	3,451
Physical sciences	231	253	279	286	229	179	186	170
Earth, atmos., & ocean sciences	30	38	34	43	40	36	57	60
Mathematical sciences	155	139	157	128	107	129	120	121
Computer sciences	227	210	217	219	199	216	161	202
Agricultural sciences	102	130	111	88	137	155	113	151
Biological sciences	453	492	543	593	563	572	540	561
Psychology	489	413	430	490	399	451	705	981
Social sciences	828	937	1,112	1,148	1,125	1,201	1,337	1,205
Engineering	253	294	291	284	283	294	344	302
Health fields	214	283	210	353	446	513	571	784
Percent of black students in HBCUs								
Total, all surveyed fields	14.1	14.4	14.7	15.4	14.5	14.8	15.9	16.5
Total, science and eng. fields	15.7	15.9	16.6	17.0	15.7	15.9	17.0	17.2
Sciences, total	17.0	16.9	17.8	18.2	16.6	16.9	17.9	18.3
Physical sciences	27.0	28.2	28.3	30.0	25.1	19.8	20.3	19.3
Earth, atmos., & ocean sciences	14.9	17.7	15.5	21.2	19.8	16.9	25.9	26.4
Mathematical sciences	23.0	20.2	22.1	19.5	17.5	21.7	21.1	20.5
Computer sciences	19.2	18.2	17.0	16.8	14.7	14.4	10.5	11.7
Agricultural sciences	42.5	43.8	41.1	38.3	43.8	56.0	42.5	50.2
Biological sciences	26.5	26.1	27.0	27.4	25.9	25.5	23.9	23.7
Psychology	13.9	12.3	12.5	13.4	10.5	11.9	16.5	21.2
Social sciences	12.9	13.5	15.3	15.7	15.1	15.3	16.8	14.8
Engineering	9.1	10.3	10.0	9.9	10.0	9.9	11.5	10.3
Health fields	6.0	7.3	5.4	8.4	9.7	10.4	11.2	13.9

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 52. Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field and sex: 1996-2001

Field	Men						Women					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
Black students in all institutions												
Total, all surveyed fields	8,970	9,115	9,245	9,553	9,355	9,540	14,002	14,445	15,016	15,707	16,727	17,888
Total, science and engineering fields	8,247	8,329	8,320	8,587	8,362	8,482	10,819	11,012	11,329	11,743	12,615	13,291
Sciences, total	6,292	6,366	6,378	6,598	6,394	6,544	9,875	10,096	10,450	10,767	11,581	12,308
Physical sciences	550	508	481	501	493	466	436	444	432	402	423	413
Earth, atmos., & ocean sciences	115	105	103	112	120	125	104	98	99	101	100	102
Mathematical sciences	368	347	339	324	294	320	343	310	274	270	275	271
Computer sciences	716	765	764	824	855	953	560	535	591	677	678	773
Agricultural sciences	131	104	149	135	118	109	139	126	164	142	148	192
Biological sciences	721	777	783	781	774	805	1,287	1,386	1,388	1,463	1,490	1,564
Psychology	808	908	887	915	883	947	2,644	2,736	2,926	2,872	3,382	3,674
Social sciences	2,883	2,852	2,872	3,006	2,857	2,819	4,362	4,461	4,576	4,840	5,085	5,319
Engineering	1,955	1,963	1,942	1,989	1,968	1,938	944	916	879	976	1,034	983
Health fields	723	786	925	966	993	1,058	3,183	3,433	3,687	3,964	4,112	4,597
Black students in HBCUs												
Total, all surveyed fields	1,383	1,462	1,340	1,477	1,435	1,500	2,001	2,170	2,188	2,269	2,699	3,037
Total, science and engineering fields	1,343	1,396	1,237	1,368	1,323	1,310	1,831	1,883	1,845	1,865	2,240	2,443
Sciences, total	1,152	1,201	1,047	1,190	1,131	1,126	1,731	1,794	1,752	1,749	2,088	2,325
Physical sciences	161	151	114	94	104	91	118	135	115	85	82	79
Earth, atmos., & ocean sciences	14	17	20	21	31	35	20	26	20	15	26	25
Mathematical sciences	80	71	57	66	58	63	77	57	50	63	62	58
Computer sciences	105	117	107	107	89	99	112	102	92	109	72	103
Agricultural sciences	54	42	60	76	48	42	57	46	77	79	65	109
Biological sciences	202	218	185	190	170	166	341	375	378	382	370	395
Psychology	108	171	97	125	118	213	322	319	302	326	587	768
Social sciences	428	414	407	511	513	417	684	734	718	690	824	788
Engineering	191	195	190	178	192	184	100	89	93	116	152	118
Health fields	40	66	103	109	112	190	170	287	343	404	459	594
Percent of black students in HBCUs												
Total, all surveyed fields	15.4	16.0	14.5	15.5	15.3	15.7	14.3	15.0	14.6	14.4	16.1	17.0
Total, science and engineering fields	16.3	16.8	14.9	15.9	15.8	15.4	16.9	17.1	16.3	15.9	17.8	18.4
Sciences, total	18.3	18.9	16.4	18.0	17.7	17.2	17.5	17.8	16.8	16.2	18.0	18.9
Physical sciences	29.3	29.7	23.7	18.8	21.1	19.5	27.1	30.4	26.6	21.1	19.4	19.1
Earth, atmos., & ocean sciences	12.2	16.2	19.4	18.8	25.8	28.0	19.2	26.5	20.2	14.9	26.0	24.5
Mathematical sciences	21.7	20.5	16.8	20.4	19.7	19.7	22.4	18.4	18.2	23.3	22.5	21.4
Computer sciences	14.7	15.3	14.0	13.0	10.4	10.4	20.0	19.1	15.6	16.1	10.6	13.3
Agricultural sciences	41.2	40.4	40.3	56.3	40.7	38.5	41.0	36.5	47.0	55.6	43.9	56.8
Biological sciences	28.0	28.1	23.6	24.3	22.0	20.6	26.5	27.1	27.2	26.1	24.8	25.3
Psychology	13.4	18.8	10.9	13.7	13.4	22.5	12.2	11.7	10.3	11.4	17.4	20.9
Social sciences	14.8	14.5	14.2	17.0	18.0	14.8	15.7	16.5	15.7	14.3	16.2	14.8
Engineering	9.8	9.9	9.8	8.9	9.8	9.5	10.6	9.7	10.6	11.9	14.7	12.0
Health fields	5.5	8.4	11.1	11.3	11.3	18.0	5.3	8.4	9.3	10.2	11.2	12.9

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 53. Full-time black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field: 1994-2001

Field	1994	1995	1996	1997	1998	1999	2000	2001
Black students in all institutions								
Total, all surveyed fields	11,965	12,503	12,989	13,567	13,782	13,973	15,060	15,448
Total, science and eng. fields	10,345	10,668	10,983	11,401	11,299	11,223	12,115	12,164
Sciences, total	8,642	8,977	9,318	9,727	9,721	9,617	10,400	10,498
Physical sciences	709	729	769	741	728	700	691	687
Earth, atmos., & ocean sciences	129	135	128	137	134	137	158	140
Mathematical sciences	412	423	422	386	355	342	344	361
Computer sciences	465	485	475	494	476	540	609	658
Agricultural sciences	162	227	194	175	208	202	218	241
Biological sciences	1,372	1,451	1,513	1,727	1,651	1,700	1,745	1,839
Psychology	2,046	2,028	2,084	2,221	2,417	2,211	2,600	2,565
Social sciences	3,347	3,499	3,733	3,846	3,752	3,785	4,035	4,007
Engineering	1,703	1,691	1,665	1,674	1,578	1,606	1,715	1,666
Health fields	1,620	1,835	2,006	2,166	2,483	2,750	2,945	3,284
Black students in HBCUs								
Total, all surveyed fields	1,951	2,004	2,086	2,308	2,184	2,288	2,682	2,664
Total, science and eng. fields	1,807	1,841	1,954	2,070	1,871	1,917	2,270	2,097
Sciences, total	1,588	1,591	1,735	1,849	1,665	1,697	1,990	1,884
Physical sciences	188	198	217	215	185	145	139	129
Earth, atmos., & ocean sciences	15	8	9	22	17	13	36	25
Mathematical sciences	98	89	99	79	67	80	75	78
Computer sciences	113	92	90	114	80	109	110	125
Agricultural sciences	46	92	67	69	98	110	92	112
Biological sciences	375	380	419	470	409	430	438	435
Psychology	284	262	259	287	254	194	282	330
Social sciences	469	470	575	593	555	616	818	650
Engineering	219	250	219	221	206	220	280	213
Health fields	144	163	132	238	313	371	412	567
Percent of black students in HBCUs								
Total, all surveyed fields	16.3	16.0	16.1	17.0	15.8	16.4	17.8	17.2
Total, science and eng. fields	17.5	17.3	17.8	18.2	16.6	17.1	18.7	17.2
Sciences, total	18.4	17.7	18.6	19.0	17.1	17.6	19.1	17.9
Physical sciences	26.5	27.2	28.2	29.0	25.4	20.7	20.1	18.8
Earth, atmos., & ocean sciences	11.6	5.9	7.0	16.1	12.7	9.5	22.8	17.9
Mathematical sciences	23.8	21.0	23.5	20.5	18.9	23.4	21.8	21.6
Computer sciences	24.3	19.0	18.9	23.1	16.8	20.2	18.1	19.0
Agricultural sciences	28.4	40.5	34.5	39.4	47.1	54.5	42.2	46.5
Biological sciences	27.3	26.2	27.7	27.2	24.8	25.3	25.1	23.7
Psychology	13.9	12.9	12.4	12.9	10.5	8.8	10.8	12.9
Social sciences	14.0	13.4	15.4	15.4	14.8	16.3	20.3	16.2
Engineering	12.9	14.8	13.2	13.2	13.1	13.7	16.3	12.8
Health fields	8.9	8.9	6.6	11.0	12.6	13.5	14.0	17.3

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 54. Full-time black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and historically black colleges and universities (HBCUs), by field and sex: 1996-2001

Field	Men						Women					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
Black students in all institutions												
Total, all surveyed fields	5,241	5,376	5,313	5,310	5,431	5,394	7,748	8,191	8,469	8,663	9,629	10,054
Total, science and engineering fields	4,783	4,895	4,736	4,724	4,821	4,714	6,200	6,506	6,563	6,499	7,294	7,450
Sciences, total	3,691	3,779	3,702	3,690	3,761	3,659	5,627	5,948	6,019	5,927	6,639	6,839
Physical sciences	441	393	390	390	378	368	328	348	338	310	313	319
Earth, atmos., & ocean sciences	67	71	67	63	83	76	61	66	67	74	75	64
Mathematical sciences	221	208	206	188	177	199	201	178	149	154	167	162
Computer sciences	281	309	269	306	345	378	194	185	207	234	264	280
Agricultural sciences	83	82	88	95	92	84	111	93	120	107	126	157
Biological sciences	561	631	611	595	621	628	952	1,096	1,040	1,105	1,124	1,211
Psychology	495	539	563	530	549	538	1,589	1,682	1,854	1,681	2,051	2,027
Social sciences	1,542	1,546	1,508	1,523	1,516	1,388	2,191	2,300	2,244	2,262	2,519	2,619
Engineering	1,092	1,116	1,034	1,034	1,060	1,055	573	558	544	572	655	611
Health fields	458	481	577	586	610	680	1,548	1,685	1,906	2,164	2,335	2,604
Black students in HBCUs												
Total, all surveyed fields	865	941	836	946	993	920	1,221	1,367	1,348	1,342	1,689	1,744
Total, science and engineering fields	846	905	767	865	905	771	1,108	1,165	1,104	1,052	1,365	1,326
Sciences, total	707	755	622	725	752	640	1,028	1,094	1,043	972	1,238	1,244
Physical sciences	129	113	96	80	83	70	88	102	89	65	56	59
Earth, atmos., & ocean sciences	5	9	8	7	21	17	4	13	9	6	15	8
Mathematical sciences	51	45	41	45	36	40	48	34	26	35	39	38
Computer sciences	52	70	41	54	59	61	38	44	39	55	51	64
Agricultural sciences	30	34	38	54	37	29	37	35	60	56	55	83
Biological sciences	158	179	134	134	143	135	261	291	275	296	295	300
Psychology	58	77	63	48	47	72	201	210	191	146	235	258
Social sciences	224	228	201	303	326	216	351	365	354	313	492	434
Engineering	139	150	145	140	153	131	80	71	61	80	127	82
Health fields	19	36	69	81	88	149	113	202	244	290	324	418
Percent of black students in HBCUs												
Total, all surveyed fields	16.5	17.5	15.7	17.8	18.3	17.1	15.8	16.7	15.9	15.5	17.5	17.3
Total, science and engineering fields	17.7	18.5	16.2	18.3	18.8	16.4	17.9	17.9	16.8	16.2	18.7	17.8
Sciences, total	19.2	20.0	16.8	19.6	20.0	17.5	18.3	18.4	17.3	16.4	18.6	18.2
Physical sciences	29.3	28.8	24.6	20.5	22.0	19.0	26.8	29.3	26.3	21.0	17.9	18.5
Earth, atmos., & ocean sciences	7.5	12.7	11.9	11.1	25.3	22.4	6.6	19.7	13.4	8.1	20.0	12.5
Mathematical sciences	23.1	21.6	19.9	23.9	20.3	20.1	23.9	19.1	17.4	22.7	23.4	23.5
Computer sciences	18.5	22.7	15.2	17.6	17.1	16.1	19.6	23.8	18.8	23.5	19.3	22.9
Agricultural sciences	36.1	41.5	43.2	56.8	40.2	34.5	33.3	37.6	50.0	52.3	43.7	52.9
Biological sciences	28.2	28.4	21.9	22.5	23.0	21.5	27.4	26.6	26.4	26.8	26.2	24.8
Psychology	11.7	14.3	11.2	9.1	8.6	13.4	12.6	12.5	10.3	8.7	11.5	12.7
Social sciences	14.5	14.7	13.3	19.9	21.5	15.6	16.0	15.9	15.8	13.8	19.5	16.6
Engineering	12.7	13.4	14.0	13.5	14.4	12.4	14.0	12.7	11.2	14.0	19.4	13.4
Health fields	4.1	7.5	12.0	13.8	14.4	21.9	7.3	12.0	12.8	13.4	13.9	16.1

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering

SURVEY MATERIALS

<i>Item</i>	<i>Page</i>
Instructions for the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 2001	163
Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 2001: Department or Program Data Sheet (NSF Form 812)	165
Crosswalk Between NSF Discipline Codes and the NCES Classification of Instructional Programs	168

INSTRUCTIONS

FOR THE NSF-NIH SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 2001

PURPOSE OF THE SURVEY

The survey provides a comprehensive picture of the training of future scientists and engineers in the Nation's graduate schools. Data are used by Congress and the executive branch during budget preparation, and by State government agencies and other analysts to assess the future supply of science and engineering (S&E) personnel.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary and failure to provide some or all of the information will in no way adversely affect your institution.

The average time required for questionnaire completion is 2 hours. Response burden comments should be directed to Suzanne Plimpton at (703) 292-7556.

Students Included in This Survey

Count as graduate students persons enrolled **for credit** in any S&E master's or Ph.D. degree program in fall 2001. Report M.D., D.D.S., D.O., or D.V.M. candidates, interns, and residents in items 5 through 7 **only** if they are concurrently working for an S&E master's or Ph.D. degree or are enrolled in a joint medical/Ph.D. program. Individuals who already hold graduate or medical degrees and are working on another master's or Ph.D. degree are considered graduate students (items 5 through 7), not postdoctorates (item 8).

Include S&E students performing thesis or dissertation research away from the campus (for example, at Government- and contractor-owned facilities) in the United States as long as they are enrolled for credit in an advanced-degree program.

Use only **whole** numbers. When reporting data for items 5, 6, 7, and 8, use headcounts, **not** full-time equivalents (FTEs).

Students Excluded From This Survey

Exclude students enrolled in a foreign country (at a branch or extension center), and non-matriculated students.

Students Enrolled in Multiple Departments/Institutions

A student should be reported in only **one** department. Students enrolled in interdisciplinary/interinstitutional programs should be counted only once, by their "home" department and institution.

INCOMPLETE DATA

Please write "unavailable" or "unknown" in data cells as applicable. On this form, "N/A" means "not applicable." Data cells left blank are presumed to be zeroes.

ITEM 4: HIGHEST GRADUATE DEGREE AVAILABLE

For the purposes of this survey, departments of programs that do not offer graduate degrees (Ph.D. or master's) are considered as "No

Ph.D.s or master's degree offered" programs, regardless of first professional or other degrees granted. "No Ph.D. or master's degree offered" programs should not report students, postdoctoral appointees, or anyone else in items 5, 6, and 7. Count individuals in a "No Ph.D. or master's degree offered" program only in item 8, and only if they qualify as postdoctoral appointees or other non-faculty staff by this survey's definitions.

ITEM 5: FULL-TIME MECHANISMS OF SUPPORT

In item 5, count only graduate students pursuing an S&E degree according to a full-time schedule; this may include any combination of study, teaching, and research, depending on your institution's policy and definition of full-time status. For example, many institutions base full-time status on the number of credit hours taken; others calculate full-time according to the amount of fees paid by the student.

Report the total number of full-time degree-seeking students in line (6), column (M). Then, in lines (1) through (6), count each full-time student **only once** by **largest** source of support so that all columns and rows in item 5 sum to the full-time total in line (6), column (M). The full-time total in item 5, line (6), column (M) must equal the full-time total reported in item 7, line (6), column (K).

Do not forget full-time, self-supported students, who should be reported in column (L). Self-supported students are supported primarily through loans, personal savings, and/or family contributions.

Mechanisms of Support—Lines (1) Through (5)

A **fellowship**, line (1), is any competitive award (often from a national competition) made to a student that requires no work of the recipient. A **traineeship**, line (2), is an educational award given to a student selected by the institution. An **assistantship** should be classified as **research**, line (3), or **teaching**, line (4), depending on assigned duties; e.g., a student devoting most of his or her time to teaching should be reported on line (4). All other full-time students, including members of the Armed Forces whose tuition is paid by the Department of Defense, and self-supported students, should be reported on line (5).

Federal Sources of Support—Columns (A) Through (H)

Department of Defense (DoD)—Column (A): Sources include the Departments of the Army, Navy, or Air Force, as well as programs within the Office of the Secretary of Defense. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (H), "Other Federal sources."

Department of Health and Human Services (HHS)—Columns (B) and (C): Report students with support from the institutes or

divisions of the National Institutes of Health (NIH) under column (B); report support from all other components of HHS in column (C). Refer to the organizational roster under "Survey Definitions" on page 3.

National Science Foundation (NSF)—Column (D): Report students receiving NSF graduate fellowships, as well as those supported under NSF research grants.

U.S. Department of Agriculture (USDA)—Column (E): Include research assistants working on projects financed out of Hatch, McIntyre-Stennis, or Smith-Lever formula funds, competitive research grants, and institution fellowship/training grants.

National Aeronautics and Space Administration (NASA)—Column (F): Report students with support from this agency.

Department of Energy (DOE)—Column (G): Report students receiving support under DOE research grants, including those supported by grants at national laboratories.

Other Federal Sources—Column (H): Report students receiving support from Federal agencies other than those listed in columns (A) through (G), such as the Fulbright program, the G.I. Bill, and Department of Education programs. Students primarily supported by Federal loans should be reported in column (L), "Self-supported students."

Non-Federal Sources of Support—Cols. (I) Through (L)

Institutional support—Column (I): Report students supported from YOUR institution, including those receiving tuition waivers. State and local government support should also be reported in this column. Students primarily supported with funds from the Federal Government, such as training grants, however, should be reported under the appropriate Federal agency.

Foreign sources—Column (J): Report students supported from any non-U.S. source, such as foreign governments, industrial firms, or specialized agencies of the United Nations.

Other U.S. sources—Column (K): Report students supported from nonprofit institutions, private industry, and all other non-Federal U.S. sources not included in columns (I) or (J).

Self-supported students—Column (L): Report both foreign and U.S. citizen students whose largest source of support comes from ANY loans (including Federal loans) or from personal or family financial contributions. **These students must be included in the full-time total, line (6), column (M).**

Full-Time Women—Line (7)

Report all full-time female students by the source of their primary support. The total number of full-time women should be reported in line (7), column (M). In each column, data on line (7) should not exceed the total on line (6).

The total number of full-time women in item 5, line (7), column (M) must match the total number of full-time women in item 7, line (5), column (K).

ITEMS 6 & 7: CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND OF U.S. CITIZENS AND PERMANENT RESIDENTS

Report all U.S. citizens and permanent residents in columns (A) through (I), and count each student only once according to his or her racial/ethnic category as defined by the Office of Management and Budget, listed under "Survey Definitions (3)" on this page.

Count foreign students, i.e., students who are in this country on temporary visas, only **once** in column (J), regardless of race/ethnicity. *Students who are native residents of a U.S. possession or are permanent residents holding green cards should be included under U.S. citizens and permanent residents.*

Please record, under the One Race Only: Non-Hispanic header, columns (A) through (E), those U.S. citizen or permanent resident students who have reported themselves in only one of the following categories: non-Hispanic Black/African American, non-Hispanic American Indian or Alaska Native, non-Hispanic Asian, non-Hispanic Native Hawaiian/Pacific Islander, or non-Hispanic White. Under the header One Race Only: Hispanic, column (F), please record those U.S. citizens and permanent residents who have reported themselves as Hispanic and either no race or only one race (Black/African American, American Indian or Alaska Native, Asian, Native Hawaiian/Pacific Islander, or White). If you allow students to report multiple races and they are U.S. citizens or permanent residents, please record them in columns (G) and (H). If students have reported themselves as Hispanic and two or more of the racial categories, please record them in column (G), More Than One Race Reported, Hispanic. Students who are non-Hispanic but are two or more races should be recorded in column (H), More Than One Race Reported, non-Hispanic. Record students who are U.S. citizens or permanent residents but have an unknown race or ethnicity in column (I). Finally, record all of those students who are on temporary visas in column (J) regardless of their race or ethnicity.

ITEM 6: PART-TIME STUDENTS

Part-Time Men, Women, and Total—Lines (1) Through (3)

For item 6, report ALL part-time students, regardless of their source of support. Part-time students are pursuing an S&E graduate degree but NOT on a full-time schedule. Consider students part time according to your own institution's definition of part-time status.

ITEM 7: FULL-TIME STUDENTS

Full-Time Total—Line (6)

Total full-time enrollment reported in item 7, line (6), should match that reported in item 5, line (6).

First-Time Full-Time Students—Line (7)

A first-time student has enrolled in the program in which he or she is pursuing a degree as of the beginning of the fall term in 2001. All other students should be considered to be beyond their first time of enrollment. The total number of first-time, full-time students in item 7, line (7), column (K), should not be greater than the full-time total reported in item 7, line (6), column (K).

First-Time Full-Time Women—Line (8)

The total number of first-time, full-time women reported in item 7, line (8) should not be greater than the full-time women total reported in item 7, line (5), column (K).

SURVEY DEFINITIONS

(1) NATIONAL INSTITUTES OF HEALTH ORGANIZATIONAL ROSTER

—Item 5, column (B)

- Fogarty International Center
- National Cancer Institute
- National Center for Human Genome Research
- National Center for Nursing Research
- National Center for Research Resources
- National Eye Institute
- National Heart, Lung, and Blood Institute
- National Institute of Arthritis and Musculoskeletal and Skin Diseases
- National Institute of Child Health and Human Development
- National Institute of Dental Research
- National Institute of Diabetes and Digestive and Kidney Diseases
- National Institute of Environmental Health Sciences
- National Institute of General Medical Sciences
- National Institute of Mental Health
- National Institute of Neurological Disorders and Stroke
- National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism

National Institute of Allergy and Infectious Diseases

National Institute on Deafness and Other Communication Disorders

National Institute on Drug Abuse

National Library of Medicine

(2) OTHER HHS ADMINISTRATIVE UNITS

—Item 5, column (C)

Substance Abuse and Mental Health Services Administration

(Please note that the former Alcohol, Drug Abuse, and Mental Health Administration institutes are now part of the National Institutes of Health.)

Centers for Disease Control and Prevention

National Institute for Occupational Safety and Health

Food and Drug Administration

Health Resources and Services Administration

(3) RACIAL/ETHNIC CATEGORIES FOR U.S. CITIZENS AND PERMANENT RESIDENTS DEFINED BY THE OFFICE OF MANAGEMENT AND BUDGET

—Items 6 & 7

Black or African American: A person having origins in any of the black racial groups of Africa.

American Indian or Alaska Native: A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent; for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Samoa, Thailand, and Vietnam.

Native Hawaiian or Other Pacific Islander: A person having origins in any of the original peoples of Hawaii, Guam, or other Pacific islands.

White: A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

Hispanic or Latino: A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.

More Than One Race Reported: Students reporting two or more of the race/ethnicity categories above.

FOR FURTHER INFORMATION . . .

If you have any questions about this survey, please contact Mr. Jason Bauer of QRC Division of Macro International Inc. by telephone at (301) 657-3077, ext. 322, or by email at gss@qrc.com.

UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR FOR TRANSMITTAL BY JANUARY 31, 2002.

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH
Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 2001
DEPARTMENT OR PROGRAM DATA SHEET

Due date: January 31, 2002

IDENTIFYING INFORMATION

1. Institution name: _____

3. Person in department or program preparing this form:

2. Name of S&E department or program: _____

Name: _____

Title: _____

Phone: (_____) _____

Email Address: _____

If changed since last year, please indicate previous name and whether
 this represents a merger, split, or expanded program:

4. Highest graduate degree¹ available in this department or program (CHECK ONE):(1) Ph.D.² (2) Master's (3) No Ph.D.² or master's degree offered

If no Ph.D. or master's offered, do not report data in items 5, 6, and 7.

**Institution and
department code
(LEAVE BLANK)**

Report all data on a headcount basis (use whole numbers, *not* fractions, decimals, FTEs, etc.). If your department does not enroll graduate students, please go to item 8.

ITEM 5. NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctoral) in fall 2001. Report each student **only once** according to the source and mechanism of the **largest amount of support** received in fall 2001.

Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider **all** graduate school academic expenses including tuition, tuition remission, and stipends.

MECHANISMS OF SUPPORT	STUDENTS RECEIVING FINANCIAL ASSISTANCE											SELF-SUPPORTED STUDENTS (including loans and family sources) (L)	TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (L)) (M)		
	FEDERAL SOURCES (excluding loans)							NON-FEDERAL SOURCES							
	Department of Defense (A) Line	HHS		National Science Foundation (D)	Department of Agriculture (E)	NASA (F)	Department of Energy (G)	Other Federal sources (H)	Institutional support (including State & local government) (I)	Foreign sources (J)	Other U.S. Sources (K)				
		Department of Defense (A)	National Institutes of Health (B)												
Graduate Fellowships	(1)														
Graduate Traineeships	(2)														
Graduate Research Assistantships	(3)														
Graduate Teaching Assistantships	(4)														
Other Types of Support	(5)														
FULL-TIME TOTAL³	(6)														
Of the students in line (6), how many in each data cell are WOMEN? ⁴	(7)														

¹ Report the highest degree offered even if there are no graduate students currently enrolled. Check "No Ph.D. or master's degree offered" only if your department or program does not offer graduate degrees.

² Or Ph.D. equivalent such as Sc.D. and D.Eng., but not Ed.D., M.D., or other professional degree

³ The total from line (6) should be inserted in item 7, line (6), column (K).

⁴ The total from line (7) should be inserted in item 7, line (5), column (K).

ITEM 6. RACE/ ETHNICITY of PART- TIME graduate students in fall 2001, by sex.	How many students belong to the following RACIAL/ETHNIC categories? In each line, count each student only once.	U.S. CITIZENS AND PERMANENT RESIDENTS								FOREIGN	TOTAL (Sum of (A) through (J)) (K)	
		ONE RACE ONLY: Non-Hispanic/Latino					ONE RACE ONLY	MORE THAN ONE RACE		Unknown or did not state	Temporary visa holders	
		Black/ African American (A)	Amer. Indian or Alaska Native (B)	Asian (C)	Native Hawaiian/ Pacific Islander (D)	White (E)	Hispanic/ Latino (F)	Hispanic/ Latino (G)	Non- Hispanic/ Latino (H)			
		MEN ENROLLED PART TIME (1)										
		WOMEN ENROLLED PART TIME (2)										
		PART TIME, TOTAL (3)										

ITEM 7. RACE/ ETHNICITY of FULL- TIME (Item 5) graduate students in fall 2001, by sex.	MEN ENROLLED FULL TIME (4)										
	WOMEN ENROLLED FULL TIME (column (K) should equal Item 5, line (7), column (M))	(5)									
	FULL TIME, TOTAL (column (K) should equal Item 5, line (6), column (M))	(6)									
	Of the full-time students on line (6), how many are FIRST TIME?	(7)									
	Of the first-time students on line (7), how many are WOMEN?	(8)									

List other Federal sources (agencies), from item 5, column (H), and number of full-time students supported by each:

Please explain variances from the previous year's data or include other comments:

If you prefer to enter your data on the Web, go to <http://www.qrc.com/gssweb/gss.htm>.

INSTRUCTIONS FOR ITEM 8: POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES

POSTDOCTORATES—Columns (A) through (F): Include all postdoctorates receiving research training through the department or program. Use the following criteria to determine postdoctorate status:

- The appointee holds a Ph.D. or equivalent doctorate (e.g., Sc.D., M.D., D.D.S., D.O., D.V.M., or foreign degrees equivalent to U.S. doctorates).
- The doctorate was awarded recently, generally within the last 5 years.
- The appointment is for a limited term, the limit generally being 5–7 years.
- The appointment is primarily for the purpose of training in research or scholarship.
- The appointee works under the supervision of a senior scholar in a department or research unit affiliated with the university.

These postdoctorates may have different titles—do not include clinical fellows and those with appointments in residency training programs in medical and health professions, unless research training under the supervision of a senior mentor is the primary purpose of the appointment.

Report postdoctorates by source of support in columns (A) through (D), with the total number of postdoctorates reported in column (E). Of this total, report the number who are foreign in column (F).

Foreign postdoctorates—Column (F): Include all postdoctorates who are in this country on temporary visas. Postdoctorates who are native residents of a U.S. possession or are permanent residents holding green cards should be included under U.S. citizens and permanent residents.

If you included postdoctorates who are part of your department or program but work in interdisciplinary research centers or other organized research units outside of the department or program, please provide a list of the names of those research centers or units:

OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES—Column (G): Include all doctoral scientists and engineers who are involved principally in research activities but are not considered either postdoctoral appointees or members of the regular faculty. On line (2), report the number of women in each category. On line (3), report those postdoctorates and non-faculty research staff who hold first professional degrees in medical and related fields (M.D., D.D.S., D.O., or D.V.M.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

ITEM 8. NUMBER OF POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES in fall 2001.	POSTDOCTORATES							OTHER NON- FACULTY RESEARCH STAFF WITH DOCTORATES	
	SOURCE OF SUPPORT								
	FEDERAL			NON-FEDERAL	TOTAL for all sources (A) through (D)	(E)			
	Fellowships (A)	Traineeships (B)	Research grants (C)						
TOTAL	(1)								
Of the total in each cell of line (1), how many are WOMEN?	(2)								
Of the total in each cell of line (1), how many hold an M.D., D.O., D.D.S., or D.V.M. degree?	(3)								

Approximately how many person hours were required to complete this form?

Please explain variances from the previous year's data or include other comments:

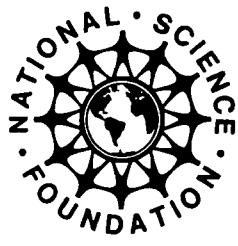
Survey of Graduate Students and Postdoctorates in Science and Engineering

CROSSWALK BETWEEN NSF DISCIPLINE CODES AND THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

The following set of discipline codes categorizes the science and engineering departments or programs in the Survey of Graduate Students and Postdoctorates in Science and Engineering. Representative department names are shown under each of the discipline codes.

ENGINEERING		EARTH, ATMOSPHERIC, AND OCEAN SCIENCES
101 AEROSPACE ENGINEERING	14.02 AEROSPACE, AERONAUTICAL, AND ASTRONAUTICAL ENGR.	301 ATMOSPHERIC SCIENCES 40.04 ATMOSPHERIC SCIENCES AND METEOROLOGY
102 AGRICULTURAL ENGINEERING	14.03 AGRICULTURAL ENGINEERING	302 GEOSCIENCES 40.06 GEOLOGICAL AND RELATED SCIENCES 40.0703 EARTH AND PLANETARY SCIENCES
103 BIOMEDICAL ENGINEERING	14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING	303 OCEAN SCIENCES 26.0607 MARINE/AQUATIC BIOLOGY 40.0702 OCEANOGRAPHY
104 CHEMICAL ENGINEERING	03.0509 WOOD SCIENCE 14.07 CHEMICAL ENGINEERING 14.32 POLYMER/PLASTICS ENGINEERING	304 EARTH, ATMOSPHERIC, AND OCEAN SCIENCES, N.E.C.
105 CIVIL ENGINEERING	04.02 ARCHITECTURE 14.04 ARCHITECTURAL ENGINEERING 14.08 CIVIL ENGINEERING 14.0803 STRUCTURAL ENGINEERING 14.0805 WATER RESOURCES ENGINEERING 14.14 ENVIRONMENTAL/ENVIRONMENTAL HEALTH ENGINEERING	MATHEMATICAL SCIENCES
106 ELECTRICAL ENGINEERING	14.09 COMPUTER ENGINEERING 14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGR.	402 MATHEMATICS AND APPLIED MATHEMATICS 27.01 MATHEMATICS 27.03 APPLIED MATHEMATICS 27.0302 OPERATIONS RESEARCH 27.99 MATHEMATICS, OTHER 30.08 MATHEMATICS AND COMPUTER SCIENCE
107 ENGINEERING SCIENCE AND ENGINEERING PHYSICS	14.12 ENGINEERING PHYSICS 14.13 ENGINEERING SCIENCE	403 STATISTICS 27.05 MATHEMATICAL STATISTICS 52.0802 ACTUARIAL SCIENCE
108 INDUSTRIAL/MANUFACTURING ENGINEERING	14.17 INDUSTRIAL/MANUFACTURING ENGINEERING 14.27 SYSTEMS ENGINEERING 14.30 ENGINEERING/INDUSTRIAL MANAGEMENT 30.06 SYSTEMS SCIENCE	COMPUTER SCIENCE
109 MECHANICAL ENGINEERING	14.11 ENGINEERING MECHANICS 14.19 MECHANICAL ENGINEERING	401 COMPUTER SCIENCE 11.01 COMPUTER AND INFORMATION SCIENCES, GENERAL 11.04 INFORMATION SCIENCES AND SYSTEMS 11.07 COMPUTER SCIENCE 52.1201 MANAGEMENT INFORMATION SYSTEMS 52.1301 MANAGEMENT SCIENCE
110 METALLURGICAL AND MATERIALS ENGINEERING	14.06 CERAMIC SCIENCES AND ENGINEERING 14.18 MATERIALS ENGINEERING 14.20 METALLURGICAL ENGINEERING 14.28 TEXTILE SCIENCES AND ENGINEERING 14.31 MATERIALS SCIENCE 40.0701 METALLURGY	AGRICULTURAL SCIENCES (SEE ALSO 102 AND 901)
111 MINING ENGINEERING	14.15 GEOLOGICAL ENGINEERING 14.16 GEOPHYSICAL ENGINEERING 14.21 MINING AND MINERAL ENGINEERING	501 AGRICULTURAL SCIENCES 02.01 AGRICULTURE/AGRICULTURAL SCIENCES 02.02 ANIMAL SCIENCES 02.03 FOOD SCIENCES 02.04 PLANT SCIENCES 02.05 SOIL SCIENCES 02.99 AGRICULTURAL SCIENCES, OTHER 03.01 NATURAL RESOURCES CONSERVATION 03.02 CONSERVATION AND REGULATION 03.03 FISHING AND FISHERIES SCIENCES AND MANAGEMENT 03.05 FORESTRY AND RELATED SCIENCES 03.06 WILDLIFE AND WILDLANDS MANAGEMENT 03.99 CONSERVATION AND RENEWABLE NATURAL RESOURCES, OTHER
112 NUCLEAR ENGINEERING	14.23 NUCLEAR ENGINEERING	BIOLOGICAL SCIENCES
113 PETROLEUM ENGINEERING	14.25 PETROLEUM ENGINEERING	601 ANATOMY 26.0601 ANATOMY 51.1301 MEDICAL ANATOMY
114 ENGINEERING, N.E.C.	14.01 ENGINEERING, GENERAL 14.22 NAVAL ARCHITECTURE AND MARINE ENGINEERING 14.24 OCEAN ENGINEERING 14.29 ENGINEERING DESIGN 14.99 ENGINEERING, OTHER	602 BIOCHEMISTRY 26.0202 BIOCHEMISTRY 51.1302 MEDICAL BIOCHEMISTRY
PHYSICAL SCIENCES		603 BIOLOGY 26.01 BIOLOGY, GENERAL
201 ASTRONOMY	40.02 ASTRONOMY 40.03 ASTROPHYSICS	604 BIOMETRY AND EPIDEMIOLOGY 26.0614 BIOMETRICS 26.0615 BIOSTATISTICS 51.1303 MEDICAL BIOMATHMATICS AND BIOMETRICS 51.2203 EPIDEMIOLOGY
202 CHEMISTRY	40.05 CHEMISTRY (SEE ALSO 602) 40.0507 POLYMER CHEMISTRY	605 BIOPHYSICS 26.0203 BIOPHYSICS 51.1304 MEDICAL BIOPHYSICS/PHYSICS
203 PHYSICS	40.08 PHYSICS (SEE ALSO 605) 40.0807 OPTICS 40.0809 ACOUSTICS	606 BOTANY 26.03 BOTANY (EXCLUDING 26.05 MICROBIOLOGY/BACTERIOLOGY—SEE 611) 26.0305 PLANT PATHOLOGY 26.0307 PLANT PHYSIOLOGY
204 PHYSICAL SCIENCES, N.E.C.	40.01 PHYSICAL SCIENCES, GENERAL 40.0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER 40.99 PHYSICAL SCIENCES, OTHER	607 CELL AND MOLECULAR BIOLOGY 26.04 CELL AND MOLECULAR BIOLOGY 26.0401 CELL BIOLOGY 26.0402 MOLECULAR BIOLOGY 51.1305 MEDICAL CELL BIOLOGY 51.1309 MEDICAL MOLECULAR BIOLOGY

608 ECOLOGY 26.0603 ECOLOGY	908 SOCIOLOGY 45.05 DEMOGRAPHY AND POPULATION STUDIES 45.11 SOCIOLOGY
609 ENTOMOLOGY AND PARASITOLOGY 26.0610 PARASITOLOGY 26.0702 ENTOMOLOGY	909 SOCIOLOGY/ANTHROPOLOGY
610 GENETICS 26.0613 GENETICS, PLANT AND ANIMAL 26.0617 EVOLUTIONARY BIOLOGY 51.1306 MEDICAL GENETICS	910 SOCIAL SCIENCES, N.E.C. 04.03 CITY/URBAN, COMMUNITY, AND REGIONAL PLANNING 04.07 ARCHITECTURAL URBAN DESIGN AND PLANNING 05 AREA, ETHNIC, AND CULTURAL STUDIES 30.11 GERONTOLOGY 43.01 CRIMINAL JUSTICE AND CORRECTIONS 44.02 COMMUNITY ORGANIZATION, RESOURCES, AND SERVICES 45.01 SOCIAL SCIENCES, GENERAL 45.04 CRIMINOLOGY 45.12 URBAN AFFAIRS/STUDIES 45.99 SOCIAL SCIENCES, OTHER
611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY 26.05 MICROBIOLOGY/BACTERIOLOGY 26.0618 BIOLOGICAL IMMUNOLOGY 26.0619 VIROLOGY 51.1308 MEDICAL MICROBIOLOGY	HEALTH FIELDS (SEE ALSO 103)
612 NUTRITION 19.05 FOODS AND NUTRITION STUDIES 26.0609 NUTRITIONAL SCIENCES 51.1311 MEDICAL NUTRITION	701 ANESTHESIOLOGY 51.1604 NURSING ANESTHETIST (POST-R.N.)
613 PATHOLOGY 26.0704 PATHOLOGY, HUMAN AND ANIMAL 51.1312 MEDICAL PATHOLOGY	702 CARDIOLOGY
614 PHARMACOLOGY 26.0612 TOXICOLOGY 26.0705 PHARMACOLOGY, HUMAN AND ANIMAL 51.1314 MEDICAL TOXICOLOGY	703 ONCOLOGY/CANCER RESEARCH
615 PHYSIOLOGY 26.0706 PHYSIOLOGY, HUMAN AND ANIMAL 51.1313 MEDICAL PHYSIOLOGY	704 ENDOCRINOLOGY
616 ZOOLOGY 26.07 ZOOLOGY	705 GASTROENTEROLOGY
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PSYCHOLOGY	707 NEUROLOGY 26.0608 NEUROSCIENCE
801 PSYCHOLOGY, COMBINED 42.01 PSYCHOLOGY, GENERAL	708 OBSTETRICS AND GYNECOLOGY
802 PSYCHOLOGY, EXCEPT CLINICAL 42.03 COGNITIVE PSYCHOLOGY AND PSYCHOLINGUISTICS 42.04 COMMUNITY PSYCHOLOGY 42.07 DEVELOPMENTAL AND CHILD PSYCHOLOGY 42.08 EXPERIMENTAL PSYCHOLOGY 42.09 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 42.11 PHYSIOLOGICAL PSYCHOLOGY/PSYCHOBIOLOGY 42.16 SOCIAL PSYCHOLOGY 42.17 SCHOOL PSYCHOLOGY 42.99 PSYCHOLOGY, OTHER 51.2301 ART THERAPY 51.2303 HYPNOTHERAPY 51.2705 PSYCHOANALYSIS	709 OPHTHALMOLOGY 51.1701 OPTOMETRY (O.D.)
803 CLINICAL PSYCHOLOGY 42.02 CLINICAL PSYCHOLOGY	710 OTORHINOLARYNGOLOGY
SOCIAL SCIENCES	711 PEDIATRICS
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903 ECONOMICS 45.06 ECONOMICS 52.06 BUSINESS/MANAGERIAL ECONOMICS	714 PULMONARY DISEASE
904 GEOGRAPHY 45.0701 GEOGRAPHY 45.0702 CARTOGRAPHY	715 RADIOLOGY 26.0611 RADIATION BIOLOGY/RADIOBIOLOGY
905 HISTORY AND PHILOSOPHY OF SCIENCE 45.0804 HISTORY AND PHILOSOPHY OF SCIENCE	716 SURGERY
906 LINGUISTICS 16.0102 LINGUISTICS	717 CLINICAL MEDICINE, N.E.C. 51.1399 MEDICAL BASIC SCIENCES, OTHER 51.1201 MEDICINE (M.D.) 51.14 MEDICAL CLINICAL SCIENCES (M.S., Ph.D.) 51.19 OSTEOPATHIC MEDICINE (D.O.) 51.21 PODIATRY (D.P.M., D.P., Pod.D.)
907 POLITICAL SCIENCE/PUBLIC ADMINISTRATION 44.04 PUBLIC ADMINISTRATION 44.05 PUBLIC POLICY ANALYSIS 44.99 PUBLIC ADMINISTRATION AND SERVICES, OTHER 45.09 INTERNATIONAL RELATIONS AND AFFAIRS 45.10 POLITICAL SCIENCE AND GOVERNMENT	718 DENTAL SCIENCES 51.04 DENTISTRY (D.D.S., D.M.D.) 51.05 DENTAL CLINICAL SCIENCES/GRAD. DENTISTRY (M.S., Ph.D.)
	719 NURSING 51.16 NURSING (EXCLUDING 51.1610, NURSING, PSYCHIATRY/MENTAL HEALTH—SEE 713, AND 51.1604 NURSING ANESTHETIST—SEE 701)
	720 PHARMACEUTICAL SCIENCES 51.20 PHARMACY
	721 VETERINARY SCIENCES 51.24 VETERINARY MEDICINE (D.V.M.) 51.25 VETERINARY CLINICAL SCIENCES (M.S., Ph.D.)
	722 HEALTH-RELATED, N.E.C. 31.0505 EXERCISE SCIENCE/PHYSIOLOGY AND MOVEMENT STUDIES 51.2306 OCCUPATIONAL THERAPY 51.2308 PHYSICAL THERAPY 51.2399 REHABILITATION/therAPEUTIC SERVICES, OTHER 51.2704 NATUROPATHIC MEDICINE 51.99 HEALTH PROFESSIONS AND RELATED SCIENCES, OTHER
	723 COMMUNICATION DISORDERS SCIENCES 51.02 COMMUNICATION DISORDERS SCIENCES AND SERVICES 51.0201 COMMUNICATION DISORDERS, GENERAL 51.0202 AUDIOLOGY/HEARING SCIENCES 51.0203 SPEECH-LANGUAGE PATHOLOGY 51.0204 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY



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